COMPLETE CATALOGUE
NO. 54

F. E. MYERS & BRO.

PUMPS AND HAY TOOLS

ASHLAND, OHIO, U.S.A.

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WISCONSIN
PRINTING CO.
MILWAUKEE

F. E. MYERS

P. A. MYERS

ESTABLISHED 1870

F. E. MYERS
& BRO.

□

CATALOGUE No. 54

WITH PRICE LIST *of*

PUMPS

DOUBLE ACTING FORCE AND LIFT, HAND, WINDMILL, POWER, HYDRAULIC, TANK AND HYDRO-PNEUMATIC PUMPS, BUCKET, BARREL AND POWER SPRAY PUMPS, HAND AND POWER SPRAY OUTFITS, CYLINDERS, PIPE, HOSE AND FIXTURES

□

HAY UNLOADING TOOLS

HAY UNLOADERS, HAY FORKS, STEEL TRACKS, PULLEYS, SLINGS, HAY RACK CLAMPS

□

BARN DOOR HANGERS, GATE HANGERS, STORE LADDERS, BICYCLE STANDS, ETC. AND REPAIRS

ASHLAND, OHIO, U. S. A.

A Modern Factory with an Up-To-Date Equipment

Duplicate Power Plant. Independent Motors in each Department.

Material and Manufactured Goods move in one direction only from Foundry to Storage and Shipping Room.

Floor Space, 388,457 Square Feet (8½ Acres). Foundry, 82,954 Square Feet.

Natural Gas. Automatic Sprinklers.

Largest Works in the United States Manufacturing Pumps and Haying Tools Exclusively, making a Complete Implement *every half minute* during working hours the year 'round.

UNDER THE PERSONAL MANAGEMENT OF THE PROPRIETORS.

Center Street Works: Wood Work Department and Specialties. This Factory Added in 1896.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

MYERS

These Trade Marks, in the form of beautiful transfers, appear on all Myers Pumps and are a Guarantee of Quality.

MYERS

MYERS

MYERS

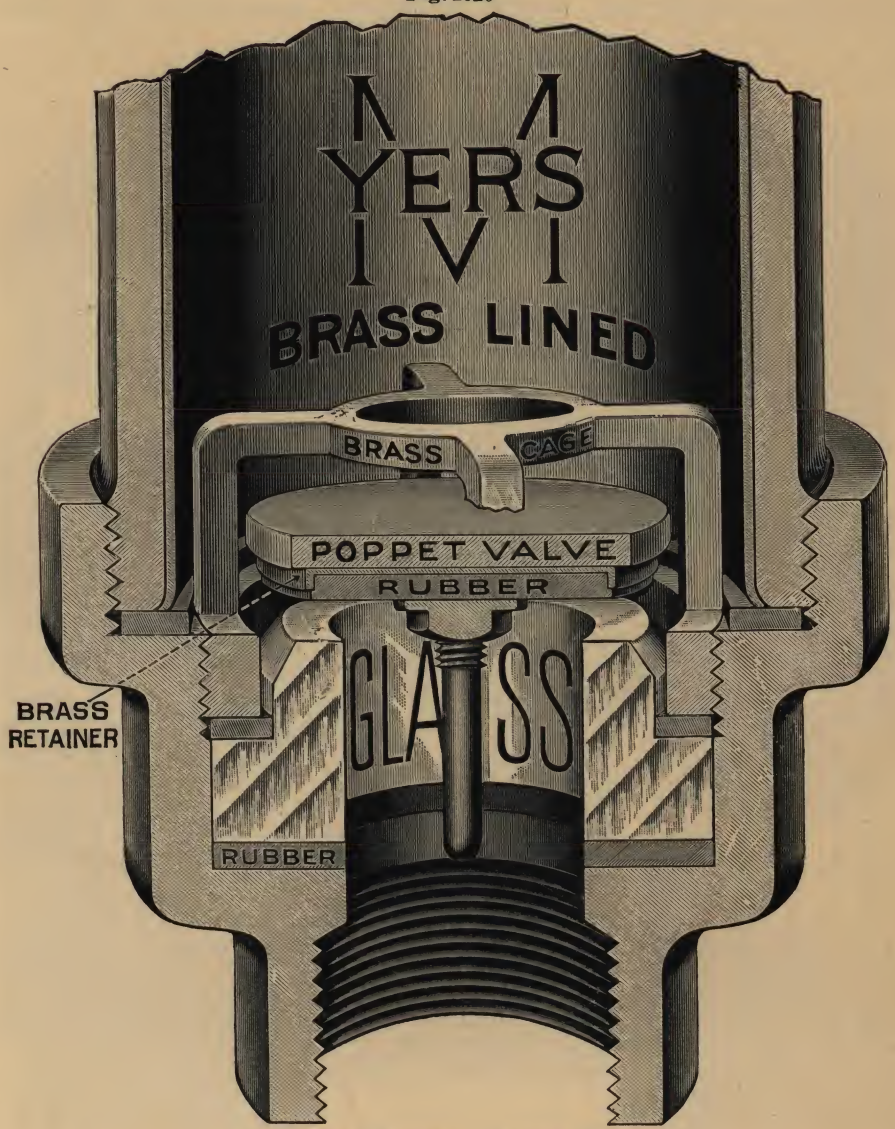
F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

ILLUSTRATING THE EASY WORKING QUALITIES OF THE MYERS COG GEAR PUMP.

ABOVE CUT MADE FROM PHOTOGRAPH

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Awards

At Columbian, Pan-American, Louisiana Purchase, Charleston, Portland and Omaha Expositions.

We have the pleasure of informing our customers and patrons that we received the **highest awards** and **diplomas**, as officially announced, on Myers Pumps and Hay Tools, as follows:

1885

Myers Farm Force Pumps

1893

Myers Spray Pumps

1898

Myers Tank Pumps

1901

Myers Hay Carriers

1902

Myers Hay Carrier Tracks

1905

Myers Stayon Door Hangers

1904

1904

1904

Our line of goods has been shown at the leading expositions throughout the country, and wherever the Myers Pump has entered into competition with the leading double acting force pumps in the market, it has never failed to come out victorious.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

ASHLAND, OHIO, U. S. A.

ILLUSTRATING OUR FACILITIES FOR SHIPPING

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LORAIN, ASHLAND & SOUTHERN
CLEVELAND, SOUTHWESTERN & COLUMBUS ELECTRIC

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OUR object in submitting the above map is to show the relative position we occupy, as compared with other neighboring towns manufacturing Agricultural Implements. You will see by this that we are in a position to contract lowest freight and express rates, and insure prompt delivery.

Branch Distributing Houses:

F. E. Myers & Bro. ..... No. 10 Tivoli St., Albany, N. Y.
F. E. Myers & Bro. ..... Cor. A. Ave. & 4th St., Cedar Rapids, Iowa
F. E. Myers & Bro. ..... 101 W. Water St., Milwaukee, Wisc.
F. E. Myers & Bro. ..... 21 South 10th St., Harrisburg, Pa.
F. E. Myers & Bro. ..... 1104 N. Levee St., St. Louis, Mo.
F. E. Myers & Bro. ..... 1316 W. 8th St., Kansas City, Mo.
F. E. Myers & Bro (For Export) ..... 11 Broadway, New York

General Agencies:

Crane Company (Pumps) ..... Kansas City, Omaha, Sioux City, Oklahoma City, Muskogee, San Francisco, Little Rock, Knoxville, Wichita.
Crane & Ordway Co. (Pumps) ..... St. Paul, Aberdeen, Fargo, Great Falls and Billings
Lee-Coit-Andreesen Hdw. Co. (Hay Tools) ..... Omaha, Nebr.
Hudson Mfg. Co ..... Minneapolis, Minn. and Omaha, Nebr.
The J. H. Ashdown Hdw. Co., Ltd. ..... Winnipeg, Man., Calgary, Alta., Saskatoon, Sask.
Mitchell, Lewis & Staver Co ..... Portland, Ore., Spokane, Wash.
Baker, Hamilton & Pacific Co ..... San Francisco, Calif.
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Consolidated Wagon & Machine Co ..... Salt Lake City, Utah, and Branches
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Jackson Hdw. Co. (Hay Tools) ..... Aberdeen, S. D.
Knapp & Spencer Co ..... Sioux City, Iowa
Morley-Murphy Hdw. Co ..... Green Bay, Wisc.
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A. Steinfeld & Co ..... Tucson, Ariz.
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Kalispell Mercantile Co ..... Kalispell, Mont.
Loeb Hardware Co ..... Montgomery, Ala
The Cameron & Barkley Co ..... Charleston, S. C., Tampa, Fla.
Knight & Wall Co ..... Tampa, Fla.
H. C. Tennent Supply Co ..... Augusta, Ga.
Strickland-Tillman Hdw. Co ..... Valdosta, Ga.
Taylor Iron Works ..... Macon, Ga.
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The Southern Supply Co ..... Jackson, Tenn.
The Hunting Co. (Pumps) ..... Watertown, N. Y.
W. W. Conde Hdw. Co. (Hay Tools and D. H.) ..... Watertown, N. Y.
J. S. Woodhouse Co ..... New York, N. Y.
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Ames Plow Co ..... Boston, Mass.
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Wood, Vallance & Co ..... Hamilton, Ont.
H. H. Dryden ..... Truro, N. S.
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Geo. A. Clark & Son ..... Minneapolis, Minn.
Townley Metal & Hdw. Co ..... Kansas City, Mo.

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ASHLAND, OHIO, U.S.A.

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Libau, Kurland, Russia
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Amsterdam, Holland
Pireus, Greece
Bergen, Norway

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Brisbane, Queensland
Ipswich, Queensland
Rockhampton, Queensland
Townsville, Queensland
Adelaide, So. Australia
Ballarat, Victoria
Melbourne, Victoria
Wangaratta, Victoria
Perth, West Australia
Hobart, Tasmania
Launceston, Tasmania
Auckland, New Zealand
Christchurch, New Zealand
Dunedin, New Zealand
Gisborne, New Zealand
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Merida, Yucatan, Mexico
Pueblo, Mexico
Metamoras, Mexico
Bucaramanga, Colombia
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Azua, Dom. Rep., W. I.
Cidade de Minas do Rio de Contas, Brazil
Recife, Brazil
Lisbon, Portugal
San Juan, Porto Rico

TO THE TRADE

IF we could personally present this new Catalogue illustrating, describing and listing the product of the Myers Factory, and tell you how careful we have been to produce Myers Water Lifters, Hay Unloading Tools, Easy and Reliable Door-ways, Hangers and Track of modern construction and adaptation, we know you would be interested, and look it over carefully.

We confess pride in our achievement covering a period of over forty years, and the fact that in all that time we have operated under one management and succeeded by personal application. We have undoubtedly created more pumps, hay tools and door hangers than any other company. Our daily output of these goods of advanced ideas aggregates two Myers Pumps a minute, working hours, and a corresponding number of cylinders, hay tools and door hangers; therefore, this Catalogue means something out of the ordinary. It means that we manufacture what it contains in one organization and under one management. It also means up-to-date and proven construction, with patented, common sense, recognized features in line with the times.

We enter this year with improved machinery, methods and conditions, and extensively increased capacity, and can promise careful inspection, prompt and interested personal attention to your favors. We are most grateful for the confidence and increased trade extended to us by over 30,000 dealers in the domestic and foreign trade. Our lists are harmonized and classified so that substantially one discount applies to all of our product, including repairs, thus acquainting buyers with the cost on any article of our manufacture, though it may not be in stock.

Yours respectfully,

F. E. MYERS & BRO.

Electrotypes for Advertising Purposes

Furnished Free for Catalog, Newspaper and Letterhead

ADVERTISING

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work and strongly recommend their use.

IMPORTANT NOTICE.

This Price List cancels all former ones.

One Discount applies to all pump and cylinder lists, enabling you to arrive at net figures without further correspondence.

All Orders will be filled from stock as per catalogue, unless we are expressly directed otherwise; when we are obliged to manufacture special goods, additional time will be required, and charge for extra expense involved, if any, will be made.

In Making Reference to any of our goods, either for the purpose of inquiry or in orders, always give the Number preceding description of article wanted; also Figure representing same.

Discounts will be furnished only to the trade. Special prices and discounts on old list do not apply to this new list.

No Claims for Shortage will be entertained, unless presented within five days after receipt of goods, as all shipments are made under the conditions of the uniform bill of lading; neither will we hold ourselves responsible for breakage after goods are delivered in good condition to the R. R. Co. We will trace for delayed shipments and if possible collect claims for lost goods if reported in time to make claim within 4 months from date of shipment.

No Goods Returned will be allowed credit, unless by special agreement made prior to shipment.

Goods Returned for Repairs should bear the sender's name and address; and letter of advice, with bill of lading, should be mailed, stating when and how forwarded, together with all necessary instructions.

Goods Returned must have consignor's name plainly written on shipping tag; otherwise it will be impossible to give credit for same.

We Do Not send out goods on sale, approval or trial, but when properly set up and cared for, will guarantee their performing all we claim for them.

PATENTS.

The Goods described in this catalogue are original with us in construction and design. We own the BOTTOM PATENTS on them, and hereby warn parties infringing same of our rights, which we propose to protect.

The Validity of our patents has been confirmed by the best patent authority of the country.

TO THE TRADE.

By purchase from the Ashland Pump Company and the Chase Pump Company, we are SOLE OWNERS of all the original patterns and machinery used in the construction and manufacture of pumps heretofore built by the above named companies, and all letters so addressed legally come into our office.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Trade Names Registered.

Trade Names which have been used by us for many years, and legally belong to F. E. Myers & Bro.

Also Trade Marks, in the Form of Beautiful Transfers, appear on all MYERS Pumps, and are a Guarantee of Quality.

Adjustable . . As applied to Door Hangers and Slings.
Aerator . . . . . As applied to Pumps.
Alfalfa . . . . . As applied to Hay Forks.
Aluminum . . . As applied to Valve Seats or finish.
Anti-Freezing . . As applied to Pumps.
Artesian . . . . As applied to Cylinders.
Ashland . . . As applied to Pumps, Hay Tools or Store Ladders.
Automatic . . . As applied to Hay Forks.
Branch Pipe . . As applied to Pumps.
Bulldozer . . As applied to Power Pumps and Working Heads.
Cable . . . . . As applied to Pulleys and Hay Carriers.
California . . As applied to Pumps and Hay Forks.
California Favorite . As applied to Spray Pumps.
Center Trip . . . As applied to Hay Slings.
Century . . . . . As applied to Pumps.
Chase . . . . . As applied to Pumps.
Clover Leaf . . . As applied to Hay Carriers.
Coating . . . . . As applied to Spray Pumps.
Cog Gear . . . . As applied to Pumps.
Columbia . . . . As applied to Hay Forks.
Combination . . As applied to Pumping Jacks.
Combination Reversible . As applied to Hay Carriers.
Compression . . As applied to Sling Attachments.
Cushion Tire . . As applied to Store Ladders.
Cyclone . . . . . As applied to Pumps and Nozzles.
Defiance . . . As applied to Working Heads, Spray Pumps and Pump Stands.
Double Lock . . As applied to Hay Carriers.
Drill Well. . . . As applied to Pumps.
Elevator . . . . As applied to Sling Carriers.
Excelsior . . . . As applied to Hay Forks.
Faultless . . . As applied to Pulleys, Sprayers, Pumps and Hay Carriers.
Flexible. . . . . As applied to Door Hangers.
Folding . . . . . As applied to Lawn Swings.
Fountain . . . As applied to Knapsack Spray Pumps.
Geyser . . . . . As applied to Pumps.
Giant . . . . . As applied to Carriers and Door Hangers.
Graduating . . . As applied to Spray Nozzles.
Grappling Harpoon . As applied to Hay Forks.
Gusher . . . . . As applied to Pumps.
Handy . . . . . As applied to Spray Pumps.
Haymaker . . . As applied to Hay Carriers.
Hydraulic. . . . As applied to Spray or Regulator Pumps.
Hydro-Pneumatic . As applied to Pumps and Cylinders.
Imperial . . . As applied to Pumps, Hay Tools or Spray Pumps.
Imperial . . . . As applied to Hay Carriers.
Lever Bucket . . As applied to Spray Pumps.
Little Giant. . . As applied to Spray Pumps.
Lock Lever . . . As applied to Hay Forks.
Low Down . . A Registered Trade Name used on Tank and other Pumps.
Myers . . . . . As applied to Pumps, Hay Tools, Store Ladders, Gate Hangers, Door Hangers, Hay Rack Clamps, Bicycle Stands, Etc.
New Century . . As applied to Pumps.
New Idea . . . . As applied to Hay Forks.
Nickel Plate . . As applied to Hay Carriers.
O. K. . . . . . As applied to Hay Carriers, Pulleys, Door Hangers and Spray Pumps.
One Way . . . . As applied to Hay Carriers.
Peerless . . . . As applied to Spray Pumps.
Perfect . . . . As applied to Pumps, Spray Pumps or Bicycle Stands.
Pneumatic . . . As applied to Pumps.
Ratchet Handle . As applied to Pumps.
Regulator. . . . As applied to Pumps.
Reversible. . . . As applied to Hay Carriers.
Right Angle . . As applied to Sling Carriers.
Roller . . . . . As applied to Lawn Swings.
Self-Oiling . . As applied to Power Pumps.
Single Rail . . . As applied to Hay Carriers.
Standard . . . . As applied to Hay Rack Clamps.
Stayon . . . . . As applied to Door Hangers.
Submerged . . As applied to Pumps for Drilled Wells.
Sure Grip . . . As applied to Hay Carriers, Door Hangers and Pulleys.
Take Down . . . As applied to Hay Rack Clamps.
Triumph . . . . As applied to Pump Jacks.
Tubular Well . . As applied to Pumps.
Universal . . As applied to Sling Pulleys and Pumping Jacks.
Unloader . . . . As applied to Hay Carriers.
Wenzelmann . . As applied to Hay Rack Clamps.

SUGGESTIONS TO SALESMEN AND DEALERS.

With a view of familiarizing you with the important and patented features of the "Myers" goods, also their points of advantage, and the reason the dealers should handle them in preference to other makes.

We wish to impress upon you the importance of confining your efforts to *one first class line of goods with special patented features on which you can control the sale*, for the following reasons, viz.: You have less money invested, and having an exclusive line of good goods, can command a price regardless of competition, and when you have the goods advertised you have a business that cannot be taken away by a competitor. The dealer who handles any and everything that is offered him never makes a success; but, on the contrary, the dealer who selects a first class article with real merit and pushes it always succeeds.

We suggest that you never fail to impress upon the mind of your customer, not only one, *but all the advantages* contained in your goods. We, as salesmen, too often get the idea that, inasmuch as we are familiar with the advantages of our goods, every one else is also familiar with them, for the reason that they are extensively advertised, etc. If you will allow us to so state it, this is a great error and should be guarded against. We suggest that if you will adopt the plan of always, and on all occasions, showing up your goods to old as well as new customers, familiarizing them with all their good points over those of your competitor, your time will be well spent, and sales in your territory will increase.

It is our aim in the manufacture of our goods to have them excel in all points: design, material, workmanship and finish. Our motto is: "*NOT HOW CHEAP, BUT HOW GOOD*," and that is why competitors always recommend their goods to be just as good as the *Myers*, because the *Myers is the standard in quality.*

In soliciting trade, always remember to recommend the *best line of goods you have*, for the reason that when you have made the sale of a good article you have made a friend; also bear in mind that there is more profit to you in a high priced line of goods, and that your customers will be better satisfied and will advertise for you.

CONSTRUCTION AND DURABILITY.

The material used in the construction of the Myers pump is the best that can be bought for the purpose. The stand is made of the best cast iron and steel. The cylinders are seamless drawn brass or brass lined iron; the latter is always recommended where it can be used, as it combines *wearing quality and strength.* The valve seat is of glass, which is positively non-corrosive and will not harden the leather, a feature belonging absolutely to the Myers pump, and without which no pump can be perfect. The check valve is of the poppet style, which rises clear of the seat at each stroke of the pump, allowing it to clear itself perfectly; the old style hinge valve is out of date. Buckets and valves are made of the best oak tanned leather, all cut to an exact thickness and *pressed dry* by means of our patented process. The reason a great many pumps do not give satisfaction is because the manufacturers use cheap leather of an uneven thickness.

There is no reason why a pump will not give satisfaction and last for years if constructed as above.

The material used in the construction of Myers Hay Tools is the best annealed malleable iron, with large hard steel or roller bearings throughout. The rope sheaves on the 7 inch Carrier are arranged to use either rope or cable. The steel track is guaranteed extra high carbon, which gives greater stiffness and carrying capacity.

Door Hangers are made with malleable iron frame with extra heavy stiffening or supporting rib, wheels accurately bored and fitted with hard steel roller bearing.

FINISH.

All Myers well pump standards are painted with a fine dark green, and striped with bronze. Power pumps painted standard machinery color. Bolt head nuts and all raised letters bronzed. A beautiful transfer monogram in gilt appears on each pump. The set length and cylinders are painted black. Myers unloaders and door hangers are finished in aluminum bronze with red points.

We defy competition in workmanship, style or finish.

WARRANTY.

All Myers Goods are warranted to be made of first class material and free from flaws, and when properly set and operated, to give satisfaction to any reasonable person.

VALUABLE INFORMATION.

For the benefit of our customers we offer the following suggestions and rules, applicable to pumps.

The outside limit for raising water vertically by suction is 33⅓ feet and this can be done only at sea level and when a *perfect vacuum* is formed. Ordinarily 25 to 28 feet is the limit, but for a good, first class job we would not recommend over 20 feet of perpendicular suction pipe to pump, and would suggest that you place the lower cylinder *in the water* wherever it is practicable to do so.

BAROMETRIC PRESSURES AT DIFFERENT ALTITUDES.

With Equivalent Head of Water and the Vertical Suction Lift of Pumps.

Altitude	Barometric Pressure	Equivalent Head of Water	Practical Suction Lift of Pump
Sea Level	14.70 lbs. per sq. in.	33.95 ft.	25 ft.
¼ mile (1320 ft.) above sea level	14.02 lbs. per sq. in.	32.38 ft.	24 ft.
½ mile (2640 ft.) above sea level	13.33 lbs. per sq. in.	30.79 ft.	23 ft.
¾ mile (3960 ft.) above sea level	12.66 lbs. per sq. in.	29.24 ft.	21 ft.
1 mile (5280 ft.) above sea level	12.02 lbs. per sq. in.	27.76 ft.	20 ft.
1¼ miles (6600 ft.) above sea level	11.42 lbs. per sq. in.	26.38 ft.	19 ft.
1½ miles (7920 ft.) above sea level	10.88 lbs. per sq. in.	25.13 ft.	18 ft.
2 miles (10560 ft.) above sea level	9.88 lbs. per sq. in.	22.82 ft.	17 ft.

In setting a pump, always be careful to have all joints tight and well leaded. Use tongs or a wrench, you cannot do it by hand.

To Find the Capacity of a Cylinder.

Square the diameter of the cylinder (in inches) and multiply by .7854; this will give you the area of the circle. Multiply this by length of stroke (in inches); this will give you the capacity in cubic inches, per stroke of piston. Multiply this by the number of strokes per minute and divide by 231 (the number of cubic inches in a gallon of water) and the result will be the capacity or the amount of water (in gallons) the pump will discharge per minute.

The areas of circles are to each other as the squares of their respective diameters. In other words, doubling the diameter of a pipe or cylinder increases its capacity four times.

A cubic inch of water weighs ..... .03617 lbs.
A cubic foot of water weighs ..... 62.46 lbs. = 62½ lbs.
A gallon of water weighs ..... 8.355 lbs. = 8⅓ lbs.
A U. S. gallon of water contains ..... 231 cu. in.
An English gallon of water contains ..... 277¼ cu. in.
A cubic foot of water contains ..... 1728 cu. in.
A cubic foot of water contains ..... 7.4805 gals. = 7½ gals.
A "miner's inch" of water approximately equals a supply of 12 U. S. gallons per minute.

Rules for Finding the Size and Speed of Pulleys.

To find the size of driving pulleys: Multiply the diameter of the driven by the number of revolutions it shall make and divide the product by the revolutions of the driver. The quotient will be the diameter of the driver.

The diameter and revolutions of the driver being given, to find the diameter of the driven that shall make a given number of revolutions: Multiply the diameter of the driver by its number of revolutions and divide the product by the number of revolutions of the driven. The quotient will be the diameter of the driven.

To find the number of revolutions of the driven pulley: Multiply the diameter of the driver by its number of revolutions and divide by diameter of driven. The quotient will be the number of revolutions of the driven.

Capacity of Myers Pumps.

The question is often asked as to size of pump required for certain work. Below we give the quantity of water the Myers pumps will discharge *per hour* when operated at the rate of 40 strokes per minute:

2½ inch cylinder, 6 inch stroke, 306 gallons per hour.
3 inch cylinder, 6 inch stroke, 440 gallons per hour.
3½ inch cylinder, 6 inch stroke, 600 gallons per hour.
4 inch cylinder, 6 inch stroke, 780 gallons per hour.

Capacities are given in American Gallons. For English Gallons deduct ⅙; for litres, multiply by 3.75.

Drilled Wells.

Style of pump to buy for certain size well.

We specify in each list the size hole required for each pump, and the depth of well the pump is adapted for.

Anti-Freezing.

The question is often asked, "What is meant by *anti-freezing?*" We mean that the pump is tapped with a small discharge hole below the frost line, which allows the water in stand to drop back to this point, preventing freezing. Platform of well must be absolutely tight; if not, in extreme cold territory the water will freeze in cylinder, or below this line, against which the pump is not warranted, and the manufacturer will not be responsible.

Weight of Water Contained in One Foot Length of Pipe of Different Sizes.

Size	Pounds	Size	Pounds	Size	Pounds
½	.086	2	1.372	4	5.488
1	.343	2½	2.159	4½	6.966
1¼	.537	3	3.087	5	8.575
1½	.774	3½	4.214	6	12.348

Pressure of Water per Square Inch for Different Heights.

Feet High	Pressure per Square Inch	Feet High	Pressure per Square Inch	Feet High	Pressure per Square Inch
1	.43	8	3.46	50	21.65
2	.86	9	3.89	60	25.99
3	1.29	10	4.33	70	30.72
4	1.73	15	6.49	80	34.65
5	2.16	20	8.66	90	38.98
6	2.59	30	12.99	100	43.32
7	3.03	40	17.32	...	.....

Number Gallons in Cisterns and Tanks.

Depth in Feet	DIAMETER IN FEET											
	5	6	7	8	9	10	11	12	13	14	15	16
5	725	1,060	1,440	1,875	2,380	2,925	3,550	4,237	4,960	5,765	6,698	7,520
6	870	1,270	1,728	2,250	2,855	3,510	4,260	5,084	5,952	6,918	8,038	9,024
7	1,015	1,480	2,016	2,625	3,330	4,112	4,970	5,931	6,944	8,071	9,378	10,528
8	1,160	1,690	2,304	3,000	3,805	4,680	5,680	6,778	7,936	9,224	10,718	12,032
9	1,305	1,900	2,592	3,375	4,280	5,265	6,380	7,625	8,928	10,377	12,058	13,536
10	1,450	2,110	2,880	3,750	4,755	5,850	7,100	8,472	9,920	11,530	13,398	15,040

Metric Liquid Measures.

Milliliter ($\frac{1}{1000}$ liter) equals 0.0388 fluid ounce.
Centiliter ($\frac{1}{100}$ liter) equals 0.338 fluid ounce.
Deciliter ($\frac{1}{10}$ liter) equals 0.845 gill.
Liter equals 1.0567 quarts.

Decaliter (10 liters) equals 2.6418 gallons.
Hectoliter (100 liters) equals 26.417 gallons.
Kiloliter (1,000 liters) equals 264.18 gallons.

Metric Measures of Length.

Millimeter ($\frac{1}{1000}$ meter) equals 0.0394 inch.
Centimeter ($\frac{1}{100}$ meter) equals 0.3937 inch.
Decimeter ($\frac{1}{10}$ meter) equals 3.937 inches.
Meter equals 39.37 inches.
Decameter (10 meters) equals 393.7 inches.

Hectometer (100 meters) equals 328 feet, 1 inch.
Kilometer (1,000 meters) equals 0.62137 mile (3,280 feet, 10 inches).
Myriameter (10,000 meters) equals 6.2137 miles.

Table of Plunger Loads, in Pounds (Estimated).

Lift in Feet	DIAMETER OF CYLINDERS										
	2½	3	3½	4	4½	5	6	7	8	9	10
50	129	180	240	307	384	562	775	956	1228	1377	1700
75	195	270	360	460	576	845	1165	1435	1840	2065	2550
100	260	360	480	615	770	1125	1550	1910	2455	2755	3400
125	320	450	600	770	960	1405	1940	2390	3070	3440	4250
150	385	540	720	920	1150	1685	2325	2870	3685	4130	5100
175	450	630	840	1075	1345	1970	2710	3350	4300	4820	5950
200	515	720	960	1230	1535	2250	3100	3825	4910	5510	6800
225	580	810	1080	1380	1730	2530	3490	4300	5525	6200	7650
250	645	900	1200	1535	1920	2810	3875	4780	6140	6885	8500
275	710	990	1320	1690	2110	3090	4260	5260	6755	7570	9350
300	775	1080	1440	1840	2305	3370	4650	5740	7370	8260	10200
350	900	1260	1680	2150	2690	3935	5425	6690	8600	9610	11900
400	1030	1440	1920	2455	3075	4500	6200	7650	9825	11015	13600
450	1160	1620	2160	2760	3460	5060	6975	8600	11000	12400	15300
500	1290	1800	2400	3070	3840	5620	7750	9560	12280	13770	17000
550	1415	1980	2640	3375	4225	6180	8520	10515	13510	15145	18700

Friction of Water in Pipes.

Friction loss, in pounds pressure per square inch, for each 100 feet of length of different sizes of clean iron pipe discharging given quantities of water per minute.

Gallons per Minute	SIZES OF PIPES, INSIDE DIAMETER, IN INCHES														
	¾	1	1¼	1½	2	2½	3	4	6	8	10	12	14	16	18
5	3.3	0.84	0.31	0.12	0.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
10	13.0	3.16	1.05	0.47	0.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
15	28.7	6.98	2.38	0.97	0.30	0.11	.....	.....	.....	.....	.....	.....	.....	.....	.....
20	50.4	12.3	4.07	1.66	0.42	0.15	.....	.....	.....	.....	.....	.....	.....	.....	.....
25	78.0	19.0	6.40	2.62	0.51	0.21	0.10	.....	.....	.....	.....	.....	.....	.....	.....
30	.....	27.5	9.15	3.75	0.91	0.33	0.11	.....	.....	.....	.....	.....	.....	.....	.....
35	.....	37.0	12.4	5.05	1.20	0.45	0.17	.....	.....	.....	.....	.....	.....	.....	.....
40	.....	48.0	16.1	6.52	1.60	0.52	0.22	.....	.....	.....	.....	.....	.....	.....	.....
45	.....	.....	20.2	8.15	2.00	0.65	0.28	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	24.9	10.0	2.44	0.81	0.35	0.09	.....	.....	.....	.....	.....	.....	.....
75	.....	.....	56.1	22.4	5.32	1.80	0.74	0.17	.....	.....	.....	.....	.....	.....	.....
100	.....	.....	.....	39.0	9.46	3.20	1.31	0.33	0.05	.....	.....	.....	.....	.....	.....
125	.....	.....	.....	.....	14.9	4.89	1.99	0.53	.....	.....	.....	.....	.....	.....	.....
150	.....	.....	.....	.....	21.2	7.0	2.85	0.69	0.10	.....	.....	.....	.....	.....	.....
175	.....	.....	.....	.....	28.1	9.46	3.85	1.00	.....	.....	.....	.....	.....	.....	.....
200	.....	.....	.....	.....	37.5	12.47	5.02	1.22	0.17	.....	.....	.....	.....	.....	.....
250	.....	.....	.....	.....	.....	19.66	7.76	1.89	0.26	0.07	0.03	0.01	.....	.....	.....
300	.....	.....	.....	.....	.....	28.06	11.2	2.66	0.37	0.09	0.04	.....	.....	.....	.....
350	.....	.....	.....	.....	.....	.....	15.2	3.65	0.50	0.12	0.05	0.02	.....	.....	.....
400	.....	.....	.....	.....	.....	.....	19.5	4.73	0.65	0.16	0.06	.....	.....	.....	.....
450	.....	.....	.....	.....	.....	.....	25.0	6.01	0.81	0.20	0.07	0.03	.....	.....	.....
500	.....	.....	.....	.....	.....	.....	30.8	7.43	0.96	0.25	0.09	0.04	0.017	0.009	0.005
750	.....	.....	.....	.....	.....	.....	.....	.....	2.21	0.53	0.18	0.08	.....	.....	.....
1000	.....	.....	.....	.....	.....	.....	.....	.....	3.88	0.94	0.32	0.13	0.062	0.036	0.020
1250	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.46	0.49	0.20	.....	.....	.....
1500	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.09	0.70	0.29	0.135	0.071	0.040
1750	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.95	0.38	.....	.....	.....
2000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.23	0.49	0.234	0.123	0.071
2250	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.63	.....	.....	.....
2500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.77	0.362	0.188	0.107
3000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.11	0.515	0.267	0.150
3500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.697	0.365	0.204
4000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.910	0.472	0.263
4500	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.593	0.333
5000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.730	0.408
Comparative Discharging Power of Pipes	1	1.75	2.76	5.66	9.88	15.59	32.	88.2	181.	316.2	498.8	733.4	1024.	1375.	

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Capacity of Different Sized Cylinders and Horse Power Required for Different Depths of Wells

Size of Cylinder, Inches.	Length of Cylinder, Inches.	Length of Stroke, Inches.	Strokes per Minute.	Gallons per Hour.	Horse Power Required for 20 Feet Elevation.	Horse Power Required for 50 Feet Elevation.	Horse Power Required for 75 Feet Elevation.	Horse Power Required for 100 Feet Elevation.	Horse Power Required for 125 Feet Elevation.	Horse Power Required for 150 Feet Elevation.	Horse Power Required for 200 Feet Elevation.	Size Suction Pipe, Inches.	Size Discharge Pipe, Inches.
2	10	6	40	193	.025	.06	.09	.12	.16	.19	.25	1¼	1
2	12	8	40	261	.025	.06	.09	.12	.16	.19	.25	1¼	1
2	14	10	40	326	.025	.06	.09	.12	.16	.19	.25	1¼	1
2	16	12	40	391	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¼	10	6	40	247	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¼	12	8	40	330	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¼	14	10	40	413	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¼	16	12	40	496	.025	.06	.09	.12	.16	.19	.25	1¼	1
2½	10	6	40	306	.025	.06	.09	.12	.16	.19	.25	1¼	1
2½	12	8	40	408	.025	.06	.09	.12	.16	.19	.25	1¼	1
2½	14	10	40	510	.025	.06	.09	.12	.16	.19	.25	1¼	1
2½	16	12	40	612	.05	.12	.19	.25	.31	.37	.5	1¼	1
2¾	10	6	40	370	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¾	12	8	40	493	.025	.06	.09	.12	.16	.19	.25	1¼	1
2¾	14	10	40	617	.05	.12	.19	.25	.31	.37	.5	1¼	1
2¾	16	12	40	740	.05	.12	.19	.25	.31	.37	.5	1¼	1
3	10	6	40	440	.025	.06	.09	.12	.16	.19	.25	1¼	1¼
3	12	8	40	587	.05	.12	.19	.25	.31	.37	.5	1¼	1¼
3	14	10	40	734	.05	.12	.19	.25	.31	.37	.5	1¼	1¼
3	16	12	40	797	.05	.12	.19	.25	.31	.37	.5	1¼	1¼
3¼	10	6	40	517	.05	.12	.19	.25	.31	.37	.5	1½	1¼
3¼	12	8	40	690	.05	.12	.19	.25	.31	.37	.5	1½	1¼
3¼	14	10	40	862	.075	.19	.28	.37	.47	.56	.75	1½	1¼
3¼	16	12	40	1035	.075	.19	.28	.37	.47	.56	.75	1½	1¼
3½	10	6	40	577	.05	.12	.19	.25	.31	.37	.5	1½	1½
3½	12	8	40	799	.075	.19	.28	.37	.47	.56	.75	1½	1½
3½	14	10	40	959	.075	.19	.28	.37	.47	.56	.75	1½	1½
3½	16	12	40	1288	.1	.25	.37	.5	.62	.75	1.	1½	1½
3¾	10	6	40	689	.075	.19	.28	.37	.47	.56	.75	2	1½
3¾	12	8	40	918	.075	.19	.28	.37	.47	.56	.75	2	1½
3¾	14	10	40	1148	.1	.25	.37	.5	.62	.75	1.	2	1½
3¾	16	12	40	1378	.125	.31	.47	.62	.78	.94	1.09	2	1½
4	10	6	40	783	.075	.19	.28	.37	.47	.56	.75	2	2
4	12	8	40	1044	.1	.25	.37	.5	.62	.75	1.	2	2
4	14	10	40	1305	.125	.31	.47	.62	.78	.94	1.09	2	2
4	16	12	40	1566	.125	.31	.47	.62	.78	.94	1.09	2	2
4½	10	6	40	991	.075	.19	.28	.37	.47	.56	.75	2½	2
4½	12	8	40	1321	.125	.31	.47	.62	.78	.94	1.09	2½	2
4½	14	10	40	1652	.15	.37	.56	.75	.94	1.12	1.31	2½	2
4½	16	12	40	1982	.175	.44	.66	.87	1.08	1.31	1.53	2½	2
5	10	6	40	1224	.125	.31	.47	.62	.78	.94	1.09	3	2½
5	12	8	40	1332	.125	.31	.47	.62	.78	.94	1.09	3	2½
5	14	10	40	2040	.175	.44	.66	.87	1.08	1.31	1.53	3	2½
5	16	12	40	2448	.2	.5	.75	1.	1.25	1.50	2.	3	2½
5½	10	6	40	1481	.125	.31	.47	.62	.78	.94	1.09	3	2½
5½	12	8	40	1947	.175	.44	.66	.87	1.08	1.31	1.53	3	2½
5½	14	10	40	2468	.2	.5	.75	1.	1.25	1.5	2.	3	2½
5½	16	12	40	2962	.25	.62	.94	1.25	1.56	1.87	2.19	3	2½
6	10	6	40	1762	.175	.44	.66	.87	1.08	1.31	1.53	4	4
6	12	8	40	2450	.2	.5	.75	1.	1.25	1.5	2.	4	4
6	14	10	40	2937	.25	.62	.94	1.25	1.56	1.87	2.19	4	4
6	16	12	40	3525	.3	.75	1.12	1.5	1.87	2.25	3.	4	4
7	10	6	40	2299	.2	.5	.75	1.	1.25	1.5	2.	4½	4½
7	12	8	40	2798	.25	.62	.94	1.25	1.56	1.87	2.19	4½	4½
7	14	10	40	3998	.375	.94	1.4	1.87	2.34	2.81	3.75	4½	4½
7	16	12	40	4798	.45	1.12	1.68	2.25	2.81	3.37	4.5	4½	4½
8	10	6	40	3133	.3	.75	1.12	1 5	1.87	2.25	3.	6	6
8	12	8	40	4177	.375	.94	1.4	1.87	2.34	2.81	3.75	6	6
8	14	10	40	5222	.45	1.12	1.68	2.25	2.81	3.37	4.5	6	6
8	16	12	40	6266	.5	1.25	1.87	2.5	3.12	3.75	5.	6	6

The above table is theoretical—actual steam H. P. multiply by 2. Gasoline engine multiply by 4.

The power stated is approximate, as it is impossible to determine exactly the loss of power in friction. For wells from 150 to 200 feet deep, not over 20 strokes per minute is possible, unless very heavy machinery is used.

The capacity given in above table is based on 40 strokes per minute.

To find the capacity of any size cylinder with less than 40 strokes per minute, deduct one-fortieth part of the capacity given for each stroke less than 40 strokes per minute.

Capacities are given in American Gallons. To find English Gallons deduct 1/6; to find litres, multiply by 3.75.

Table Showing Amount of Water Discharged per Stroke by a Pump,

The Diameter of Cylinder and Length of Stroke Being Known.

There is also Appended a

Table of Diameters and Areas of Circles,

The Diameters of Circles and Cylinders Being Identical.

Diameter of Pump Cylinder in Inches	LENGTH OF STROKE IN INCHES, WITH CAPACITY PER STROKE IN GALLONS											Diameters and Areas of Circles	
	1	2	3	4	5	6	7	8	10	12	In.	Diameter of Circle (Pump Cylinder) in Inches	Area of Circle (Pump Cylinder) in Square Inches
1	.0034	.0068	.0102	.0136	.0170	.0204	.0238	.0272	.0340	.0408	Gal.	1	.7854
1¼	.0053	.0106	.0159	.0212	.0266	.0319	.0372	.0425	.0531	.0637	"	1¼	1.2271
1½	.0076	.0153	.0229	.0306	.0382	.0459	.0535	.0612	.0765	.0918	"	1½	1.7671
1¾	.0104	.0208	.0312	.0416	.0521	.0625	.0729	.0833	.1041	.1249	"	1¾	2.4043
2	.0136	.0272	.0408	.0544	.0680	.0816	.0952	.1088	.1360	.1632	"	2	3.1416
2¼	.0172	.0344	.0516	.0688	.0860	.1033	.1205	.1377	.1721	.2071	"	2¼	3.9760
2½	.0212	.0425	.0637	.0850	.1062	.1275	.1487	.1700	.2125	.2550	"	2½	4.9087
2¾	.0257	.0514	.0771	.1028	.1285	.1543	.1800	2057	.2571	.3085	"	2¾	5.9395
3	.0306	.0612	.0918	.1224	.1530	.1836	.2142	.2448	.3060	.3672	"	3	7.0686
3¼	.0359	.0719	.1078	.1438	.1795	.2156	.2515	.2875	.3594	.4313	"	3¼	8.2957
3½	.0416	.0833	.1249	.1666	.2082	.2499	.2915	.3332	.4165	.4998	"	3½	9.6211
3¾	.0479	.0957	.1435	.1914	.2393	.2871	.3350	.3828	.4785	.5743	"	3¾	11.044
4	.0544	.1088	.1632	.2176	.2720	.3264	.3808	.4352	.5440	.6528	"	4	12.566
4½	.0688	.1377	.2065	.2754	.3442	.4131	.4819	.5508	.6885	.8262	"	4½	15.904
5	.0850	.1700	.2550	.3400	.4250	.5100	.5950	.6800	.8500	1.0200	"	5	19.635
5½	.1028	.2057	.3085	.4114	.5142	.6171	.7199	.8228	1.0285	1.2342	"	5½	23.758
6	.1224	.2448	.3672	.4896	.6120	.7344	.8568	.9792	1.2240	1.4688	"	6	28.274
7	.1666	.3332	.4998	.6664	.8330	.9996	1.1662	1.3328	1.6660	1.9992	"	7	38.484
8	.2176	.4352	.6528	.8704	1.0880	1.3056	1.5232	1.7408	2.1760	2.6112	"	8	50.265
9	.2754	.5508	.8262	1.1016	1.3770	1.6524	1.9278	2.2032	2.7540	3.3048	"	9	63.617
10	.3400	.6800	1.0200	1.3600	1.7000	2.0400	2.3800	2.7200	3.4000	4.0800	"	10	78.540

To obtain the capacity of a pump with diameter of cylinder given in the table, but with a longer stroke than 12 inches (the longest stroke given in table), add or multiply the capacity to represent the required length of stroke.

For instance: The capacity of a cylinder with an 18 inch stroke would be the same as that (having the same diameter) of a 12 inch stroke cylinder, added to the capacity of a 6 inch stroke cylinder; or the same result may be obtained by multiplying the capacity of a cylinder with 6 inch stroke by 3.

To obtain the amount of water discharged per minute, multiply the capacity per stroke by the number of strokes per minute.

Capacities are given in American Gallons. To find English Gallons deduct ⅙; to find litres, multiply by 3.75.

SPECIAL NOTICE

Directions for Setting the Myers Pump.

Before placing pump in well, put the cylinder in a pail of water. This will expand the buckets. If the buckets should be thick, it may work hard and stiff at first. The difference in thickness and expansion of leathers, when pumps are fitted snug, makes it almost impossible to adjust them right at the factory and have them all work easy when first put in. The pump always works easier after a few days use.

In placing the Myers Pump in the well, be very careful to see that the pipe joints are well threaded and screwed together snugly. Great care should be taken that the connecting rod in deep well pumps be well threaded and screwed together tightly, making good, strong joints.

In fitting all our deep well pumps, cut the connecting pipe and connecting rod the same length, as an allowance has been provided for in the pump. Fasten the pump to the platform with wood screws.

TO PRIME THE PUMP, HOLD A PAIL OF WATER TO THE SPOUT AND WORK THE HANDLE RAPIDLY, AND IT WILL PRIME ITSELF.

HOW TO START OR PRIME A FORCE PUMP. Hold a pail of water to the spout and work the handle rapidly. This operation will cause the pump to suck water through the spout into the cylinder, which primes the pump. We give the above information for the reason that a great many people are unable to start their pump when it is first set, or to start it later on if for any reason it should lose priming, usually caused by gravel or foreign substance having lodged under the valve.

HINTS TO BE OBSERVED IN SETTING PUMPS.

Always give the manufacturer credit for knowing what wells his pumps are adapted for.
Never try to raise water over 25 feet with a five foot set length pump, unless you lower the cylinder.
Always use pipe specified in description of pump.
Always suspend the pump from the platform; do not allow it to rest on bottom of well. Stay the pipe below cylinder.
See that the frost vent is open.
We recommend a divided cylinder or deep well pump in all wells over 25 feet deep.
Always place lower cylinder at bottom of pipe in deep wells.

SIZE CYLINDERS ADAPTED TO CERTAIN WELLS.

6	inch	cylinder	for	wells	20	feet	or	less.	3	inch	cylinder	for	wells	25 to 75 feet.
5	"	"	"	"	25	"	"	"	2½	"	"	"	"	25 to 150 "
4	"	"	"	"	35	"	"	"	2¼	"	"	"	"	25 to 175 "
3½	"	"	"	"	25 to 50 feet.				2	"	"	"	"	25 to 200 "

WHAT IS THE MATTER WITH YOUR PUMP?

YOU WILL FIND IT HERE.

The first and most important is that there is water in the well. The simple fact that there was water in the well is no indication that there is water at the present time; therefore, before making complaint about your pump, assure yourself that there is water there to be pumped.

If a pump does not work properly there must be some cause.

If it loses its priming (the water runs down) the check valve is defective or some obstruction has gotten under it; it may be sand or gravel, or a little cutting broken from the pipe thread. Remedy: Remove the valve and scrape the lower side thoroughly with a knife, being careful to remove all grit.

If it throws water on down stroke of handle only (we refer to a double acting pump), there must be something under the lower check valve, or plunger leather is worn out.

If it throws water on upward stroke of handle only, there must be something lodged under valve in lower bucket or it may have become hardened and curled up.

If the pump discharges air bubbles with the water the suction pipe is not screwed together tight or split open.

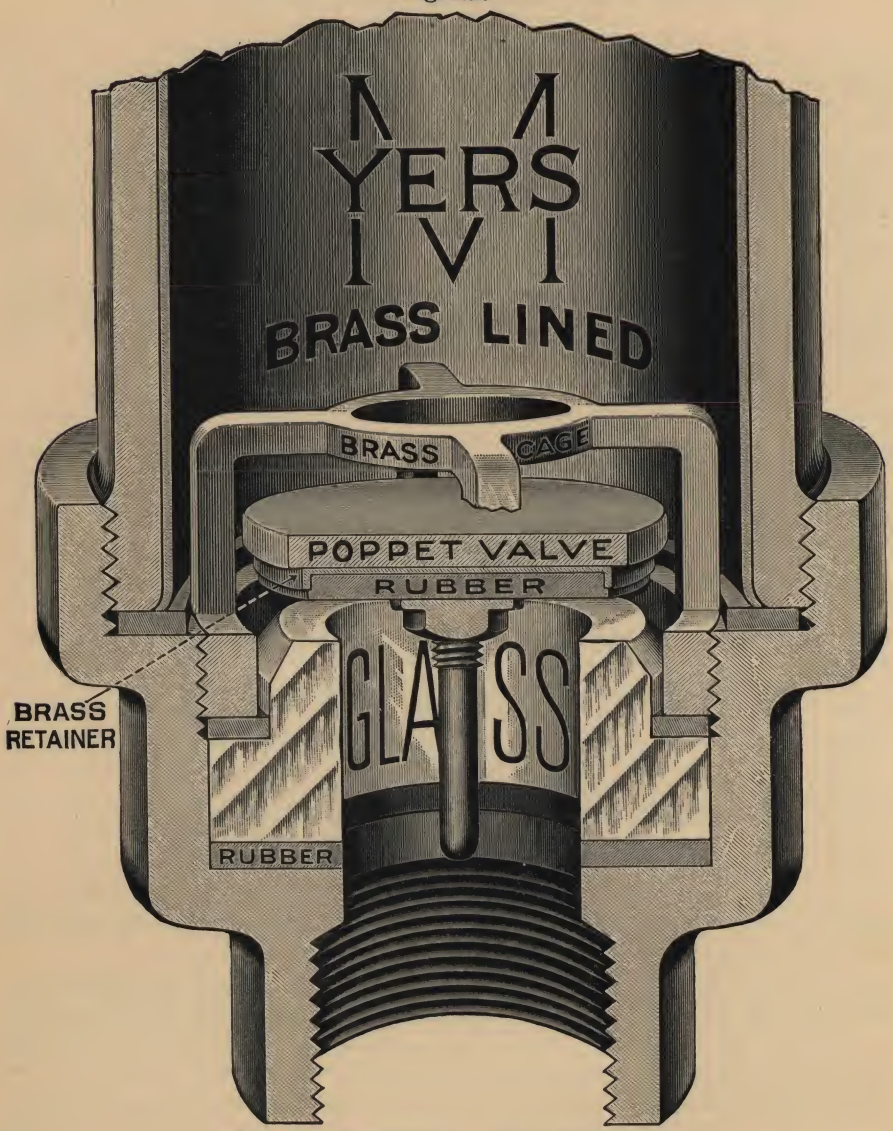
If the handle jerks back when you pull it down, you either have the cylinder too far from the water or the supply is shut off in some manner; the suction pipe may be too small or if a drive well the screen may be closed up.

If the water escapes over the upper cylinder (if it is a Myers pump) expand plunger by turning on nut exposed at top of cylinder.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

MYERS
HOUSE PUMPS

LIFT AND FORCE

For Cisterns and Shallow Wells

The Force Pumps are used in forcing water to an elevated or closed tank, sprinkling purposes, etc.

The Pitcher or Lift Pumps for delivering water at the pump only.

The Myers House Pump Display Stand is particularly recommended to dealers as being a good booster in the sale of Myers Pumps.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The New Myers House Pump Display.

For Counter, Window or Outside Display.

Fig. 1738

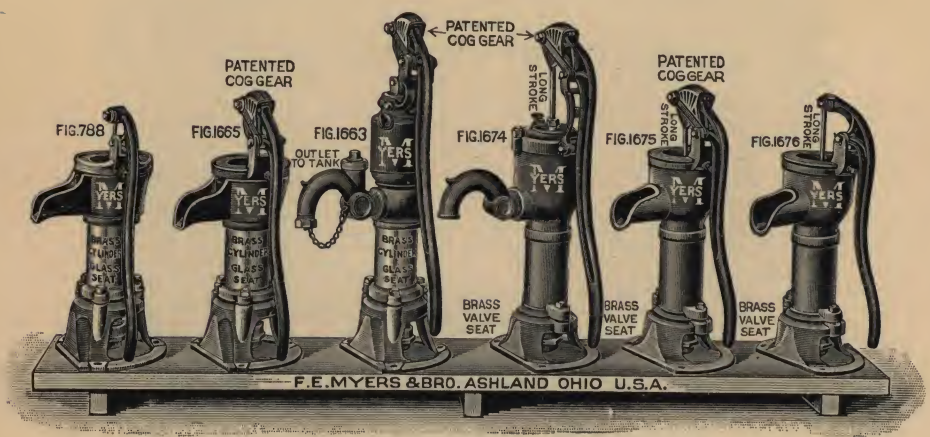


Fig. 1738 shows our new dealers' Exhibit of Myers House Pumps consisting of six pumps.

The display is attractively mounted on heavy plank, nicely painted, and gives the dealer a handsome sample. The pumps are nicely finished and will interest customers justifying effort for display on floors, counters, in windows or on pavement. It is distinctive in style of pumps as well as advertising value, and covers a line of proven construction and adaptation on which we have a very large demand.

We make no charge whatever for the stand itself, or for mounting and crating for shipment. The exhibit comes to you mounted and crated complete, and subject to regular pump discount, which brings the net low on styles in daily demand.

The tendency is to get away from cheap, flimsy, competitive pumps, and for a line in harmony with brass and nickel trimmings such as are being installed in bathrooms, kitchens and home surroundings. With a display of this kind before a customer and the proper sales argument you can double or triple your House Pump Trade.

PRICE LIST, Represented by Fig. 1738.

Myers House Pump Display complete as illustrated above, including six Myers House Pumps Nos. 220, R220, R251, R410, R416 and 416, mounted on heavy plank, ready for exhibition purposes, crated for shipment. List ..... (*Tenant*).. **$36.50**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Fig. 1674

The Myers Cog Gear House Force Pump.

PATENTED.

Long Stroke (5″). Large Capacity.

More Water with 33⅓% Less Power Required to Operate.

Fig. 1674 represents the Myers Cog Gear House Force Pump with long stroke and extra large capacity; has our patented rolling motion cog gear with 5 inch stroke, giving at least 25 per cent more capacity than the ordinary house pump; is especially recommended where a large capacity house pump is desired. The cylinder is bored and highly polished. Has brass valve seat. The head is attached to the pump by two bolts. The handle can be adjusted to any angle desired. Arranged to drop the water to prevent freezing. This pump can also be furnished with cock spout for forcing water into elevated tanks.

PRICE LIST, Represented by Fig. 1674.

No. R410, Myers Long Stroke Cog Gear House Force Pump, 3 inch polished cylinder, with plain brass valve seat, tapped for 1¼ inch pipe......(*Quartz*)..**$7.00**

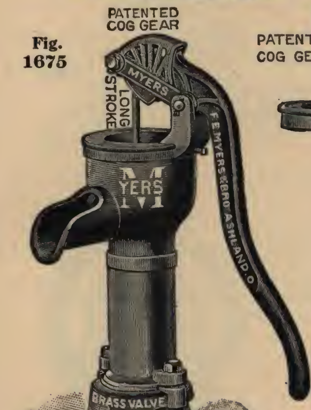
No. R411, Myers Long Stroke Cog Gear House Force Pump, 3 inch brass lined cylinder, with plain brass valve seat, tapped for 1¼ inch pipe......(*Quasi*).. **8.25**

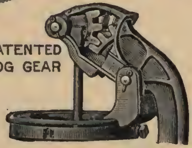
No. R412, Myers Long Stroke Cog Gear House Force Pump, 3½ inch polished cylinder, with plain brass valve seat, tapped for 1½ inch pipe....(*Quash*).. **7.50**

No. R413, Myers Long Stroke Cog Gear House Force Pump, 3½ inch brass lined cylinder, with plain brass valve seat, tapped for 1½ inch pipe.....(*Quay*).. **8.75**

Cock Spout used on any of the above pumps.....(*Bluer*).. **1.25**

Fig. 1675





The Myers Cog Gear Pitcher Pump.

Fitted with Brass Valve Seat.

Long Stroke. Large Capacity.

More Water with 33⅓% Less Power Required to Operate.

Fig. 1675 represents the Myers Long Stroke Pitcher Pump placed on the market by us to meet the demand for a Pitcher Pump with extra large capacity. This pump is fitted with our patented rolling motion cog gear handle. The handle can be adjusted to any desired angle. The cylinder is bored and highly polished. Arranged to drop the water to prevent freezing.

PRICE LIST, Represented by Fig. 1675.

No. R416, Myers Long Stroke Cog Gear Pitcher Pump, 3 inch polished cylinder, with plain brass valve seat, tapped for 1¼ inch pipe.........(*Quarter*)..**$3.75**

No. R417, As above, with 3 inch brass lined cylinder, tapped for 1¼ inch pipe..........(*Queen*).. **5.00**

No. R418, Myers Long Stroke Cog Gear Pitcher Pump, 3½ inch polished cylinder, with plain brass valve seat, tapped for 1½ inch pipe..........(*Quarto*).. **4.50**

No. R419, As above, with 3½ inch brass lined cylinder, tapped for 1½ inch pipe............(*Queer*).. **5.75**

Fig. 1676

Myers Long Stroke Pitcher Pump.

Fitted with Brass Valve Seat.

Long Stroke (5″). Large Capacity.

Fig. 1676 represents the Myers Long Stroke Pitcher Pump built to fill the requirements of a Pitcher Pump where capacity is considered. The cylinder is bored and highly polished. The handle is adjustable to any angle. Arranged to drop the water to prevent freezing.

PRICE LIST, Represented by Fig. 1676.

No. 416, Myers Long Stroke Pitcher Pump, 3 inch polished cylinder, with plain brass valve seat, tapped for 1¼ inch pipe...................(*Quarry*)..**$3.50**

No. 417, As above, with 3 in. brass lined cylinder.(*Tabbard*).. **4.75**

No. 418, Myers Long Stroke Pitcher Pump, 3½ inch polished cylinder, with plain brass valve seat, tapped for 1½ inch pipe ....(*Quart*).. **4.00**

No. 419, As above, with 3½ in. brass lined cylinder.(*Tabes*).. **5.25**

The Myers Brass Cylinder Pitcher Pump

PATENTED

With Cog Gear or Plain Handle.

Fig. 1665

With Patent Glass Valve Seat, Drop Valve. Arranged to Drop the Water to Prevent Freezing.

The Myers Long Stroke Cog Gear Brass Cylinder Pitcher Pump.

This pump is the same in every particular as the regular Myers Brass Cylinder Pitcher Pump, with the exception that it is fitted with the cog gear handle, which makes it easier to operate.

PRICE LIST, Represented by Fig. 1665.

No. R220, 3 inch Brass Cylinder Cog Gear Pitcher Pump, with glass valve seat, tapped for 1¼ inch suction pipe. Price ..... (*Parfit*) .. **$6.25**

No. R222, 3½ inch Brass Cylinder Cog Gear Pitcher Pump, with glass valve seat, tapped for 1½ inch suction pipe. Price ..... (*Parget*) .. **7.50**

Fig. 788

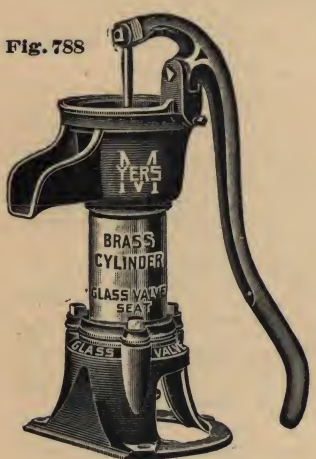


Fig. 1072

We use the *Patent Glass Valve Seat* because *glass* is the only material that will not *corrode* or *rust* and accumulate a vitrous substance which *hardens the leather* and causes the pump *to lose priming,* as is the case with brass, iron or any other metal.

The Myers Brass Cylinder Pitcher Pump.

With Patent Glass Valve Seat, Drop Valve. Arranged to Drop the Water to Prevent Freezing.

The ordinary pitcher pump is poorly constructed and the price has become so demoralized that dealers prefer not to handle it; therefore, we offer the following.

Fig. 788 illustrates our Brass Body Pitcher Pump, which is built in a strictly first class manner, with seamless drawn brass cylinder, glass seat, rubber fibre check and revolving top. The base is a new and novel design, and is attached to the cylinder by means of three heavy bolts.

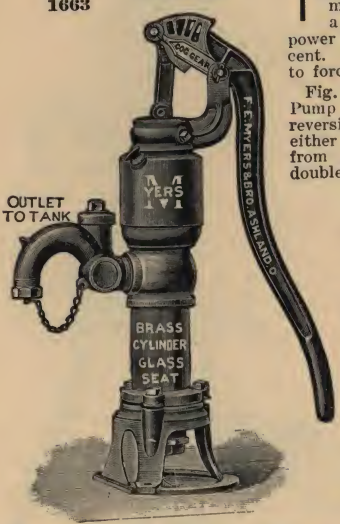
PRICE LIST, Represented by Fig. 788.

No. 220, 3 inch Brass Cylinder Pitcher Pump, with patent glass valve seat, 1¼ inch pipe. Price ..... (*Cupel*) .. **$6.00**

No. 222, 3½ inch Brass Cylinder Pitcher Pump, with patent glass valve seat, 1½ inch pipe. Price ..... (*Cupule*) .. **7.25**

The Myers Long Stroke Cog Gear Double Acting House Force Pump

Fig. 1663 PATENTED

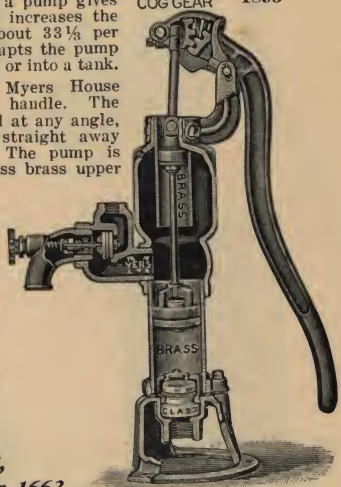


The application of the cog gear movement to the piston rod of a pump gives a compound leverage that increases the power applied to the handle about 33⅓ per cent. This special leverage adapts the pump to forcing water to an elevation or into a tank.

Fig. 1663 illustrates the Myers House Pump as fitted with cog gear handle. The reversible handle can be located at any angle, either right or left hand or straight away from the pump, as desired. The pump is double acting, has heavy seamless brass upper and lower cylinders, with patented glass valve seat, fibre rubber check valve and expansion plunger bucket. It is compactly built and very powerful.

Fig. 1895 represents the same pump as fitted with cock spout. The cock spout and plain spout are interchangeable on the same pump.

PATENTED COG GEAR Fig. 1895



PRICE LIST, Represented by Fig. 1663.

No. R251, Fig. 1663, has brass upper and 3 inch brass lower cylinder, with patent glass valve seat, tapped for 1¼ inch suction pipe; plain spout. Price.....(*Pardon*).. **$10.00**

No. R251CS, Fig. 1895, has brass upper and 3 inch brass lower cylinder, with patent glass valve seat, tapped for 1¼ inch suction pipe. Has cock spout. Price.....(*Thine*).. **11.25**

No. R253, Fig. 1663, has brass upper and 3½ inch brass lower cylinder, with patent glass valve seat, tapped for 1½ inch suction pipe; plain spout. Price.....(*Parfay*).. **11.25**

No. R253CS, Fig. 1895, has brass upper and 3½ inch brass lower cylinder, with patent glass valve seat, tapped for 1½ inch suction pipe. Has cock spout. Price.....(*Thor*).. **12.50**

Fig. 1746 PATENTED COG GEAR

Myers Cog Gear House Lift Pump

With Siphon Spout.

PATENTED COG GEAR

PRICE LIST, Lift Pump, Fig. 1746.

No. R245, is fitted with 3 inch brass cylinder, glass valve seat, patent drop valve, 1¼ inch pipe.. Price..(*Pash*).. **7.00**

No. R246½, House lift pump with 3 inch polished iron cylinder, plain brass valve seat, 1¼ inch pipe. Price .....(*Pask*).. **5.00**

No. R247, is fitted with 3½ inch brass cylinder, glass valve seat, patent drop valve, 1½ inch pipe. Price .....(*Paspy*).. **8.25**

No. R248½, House lift pump, with 3½ inch polished iron cylinder, plain brass valve seat, 1½ inch pipe. Price .....(*Pass*).. **5.75**

The Myers Double and Single Acting Bracket House Force Pump

With Siphon Spout and Reversible Handle.

Fitted with Glass Valve Seat and Brass Cylinder.

Fig. 1900

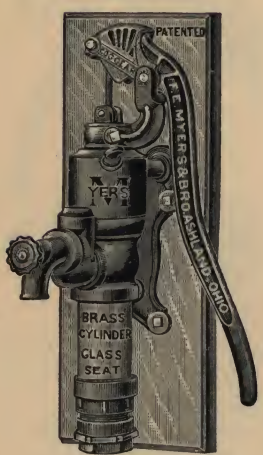


Fig. 911

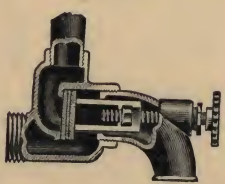
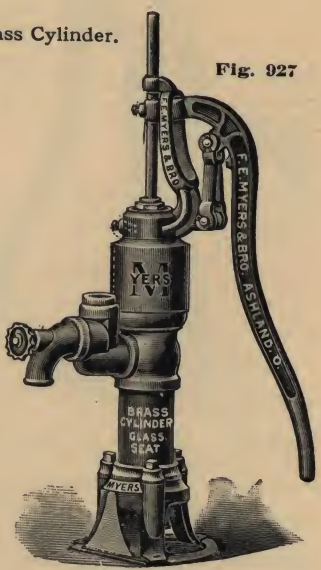


Fig. 927



Figs. 927 and 1900 represent the Myers House Pump which is built on the same principle throughout as our regular House Force Pump. This pump, instead of being fitted with a base or stand, is arranged with a bracket, which is attached directly to the side of the wall of building, or can be mounted on plank and the plank attached directly to the wall.

It is made plain or with cock spout. The spouts are interchangeable on the same pump.

Fig. 911 represents a sectional view of the cock spout used on this pump.

PRICE LIST, Represented by Fig. 1900.

No. 249, Cog Gear Pump, has brass upper and 3 inch brass lower cylinder, with patent glass valve seat and plain spout, tapped for 1¼ inch suction pipe. Price.....(*Bliz*)..**$10.00**

No. 250, Cog Gear Pump, has brass upper and 3½ inch brass lower cylinder, with patent glass valve seat and plain spout, tapped for 1½ inch suction pipe. Price.....(*Blizzer*).. **11.25**

For either of the above pumps fitted with cock spout, Fig. 911, add to list.....(*Bluer*).. **1.25**
For either of above pumps mounted on plank as shown in Fig. 1900, add to list....(*Tiglice*).. **.75**

PRICE LIST, Represented by Fig. 927.

No. 252, has 3 inch brass cylinder with patent glass valve seat and plain spout. Price. (*Blizzard*)..**$10.00**
No. 254, has 3½ inch brass cylinder with patent glass valve seat and plain spout. Price. (*Blizy*).. **11.25**
For either of the above pumps fitted with cock spout, as shown in Fig. 927, add to list. (*Bluer*).. **1.25**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Fig. 1897

Anti-Freezing Cistern and Shallow Well Pumps.

With Siphon Spout and Reversible Handle.

Fig. 1745

Figs. 1745 and 1897 represent our Myers House and Cistern Pumps, with valves omitted and a set-length pipe connecting to cylinder or working barrel below. These pumps are suitable for indoor or outdoor service where a short pump standard is desired.

The spout has outlet to tank and is furnished with brass cap to close spout, which enables user to force water into overhead tank. A check valve should be placed in this discharge pipe immediately above the spout.

These pumps are fitted with a frost vent in pipe just above the cylinder to prevent freezing.

PRICE LIST, Represented by Fig. 1897.

4 FOOT SET LENGTHS.

No. RS245 has 3″ brass lined cylinder with glass valve seat tapped for 1¼″ pipe. List ..... (*Thorn*) .. **$9.50**

No. RS247 has 3½″ brass lined cylinder with glass valve seat tapped for 1½″ pipe. List ..... (*Thorny*) .. **10.75**

No. RS246½ has 3″ polished iron cylinder with iron valve seat tapped for 1¼″ pipe. List ..... (*Thorp*) .. **7.50**

No. RS248½ has 3½″ polished iron cylinder with iron valve seat tapped for 1½″ pipe. List ..... (*Thoth*) .. **8.75**

PRICE LIST, Represented by Fig. 1745.

No. RS251 has 3″ brass lined cylinder with glass valve seat tapped for 1¼″ pipe. List. (*Pond*) .. **$10.75**

No. RS253 has 3½″ brass lined cylinder with glass valve seat tapped for 1½″ pipe. List ..... (*Ponder*) .. **12.00**

No. RS251½ has 3″ polished iron cylinder with iron valve seat tapped for 1¼″ pipe. List. (*Pone*) .. **8.75**

No. RS253½ has 3½″ polished iron cylinder with iron valve seat tapped for 1½″ pipe. List ..... (*Pons*) .. **10.00**

For any of above force pumps fitted with cock spout, Fig. 911, add to list ..... (*Bluer*) .. **1.25**

Scene Illustrating the Myers House Force Pump.

With Cock Spout, and the Manner in Which it Can Be Used for Forcing Water Into a Tank in the Attic for Domestic Use.

Fig. 1182

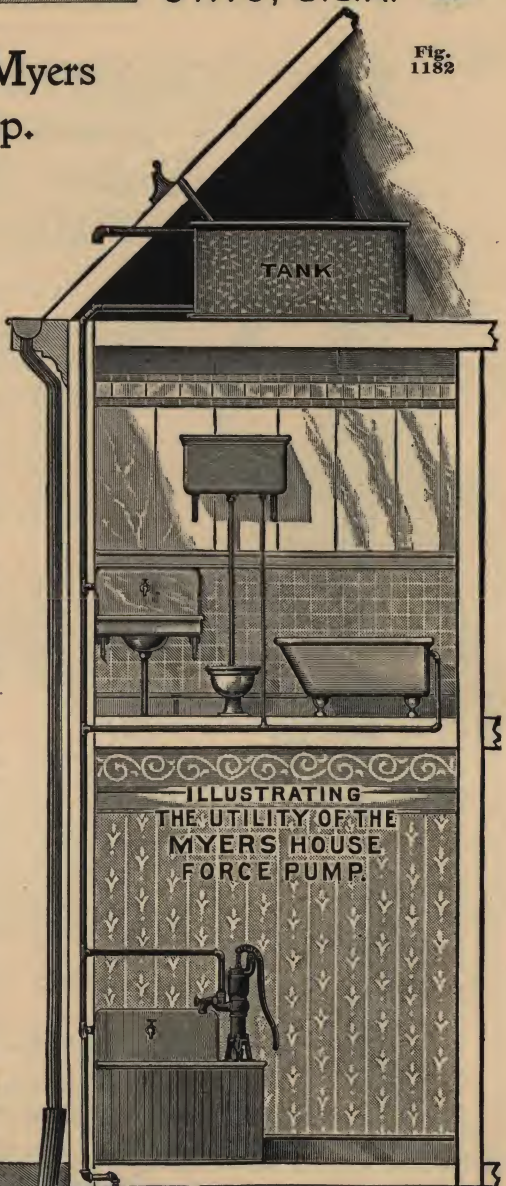


Fig. 1182 is an interior view of an ordinary dwelling house fitted up with tank in attic to supply bathroom and kitchen. The water is taken directly from the roof into the tank, the overflow returned to the roof, and then conveyed to the cistern through the ordinary spouting.

The House Force Pump with cock spout is located at the sink and connected with suction pipe direct to the cistern. In this way the water supply at the sink can be drawn direct from the cistern by means of the pump, or the water can be pumped from the cistern direct to the tank, and then returned to the bathroom and sink by means of the supply pipe as shown in the cut.

We illustrate the above for the convenience of parties who are not aware of how easily they can install their own private water works system, and also the great convenience of such a system.

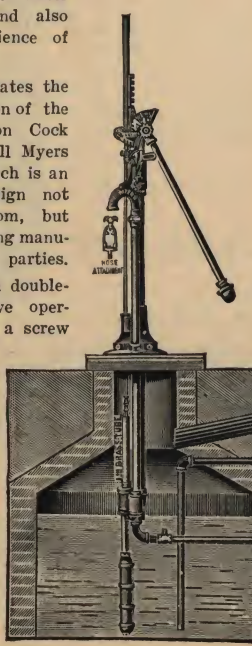


Fig. 911

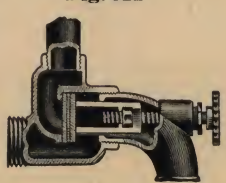


Fig. 911 illustrates the interior construction of the Myers Compression Cock Spout, as used on all Myers House Pumps, which is an entirely new design not only different from, but superior to anything manufactured by other parties.

It is fitted with double-faced rubber valve operated by means of a screw and hand wheel, which makes a positive shut off to the pipe leading to the tank, thus relieving the pump of the weight of water in the discharge pipe.

The Myers Well Force Pump.

With Plunger Tube.

For Hand and Windmill Use.

With Brass Bibb Cock and Patent Glass Valve Seat.

7 Inch Stroke.

Fig. 1901

Fig. 1902

Figs. 1901 and 1902 represent the *Myers Well Force Pump*, built with cylinder in the main pump stand, and check valve in the base. The pump is complete within itself, has 1¼ plunger tube with two leather upper plunger instead of stuffing box as formerly used, large air chamber and is fitted with a brass compression bibb cock. Has brass nipple in the top of air chamber for connecting discharge pipe.

Is fitted with Myers Patent Glass Valve Seat. The handle and pump head are reversible, and can be located at any angle desired. The Fig. 1901 pump is arranged so that by raising the handle to the highest point the valve is tipped, thus dropping the water to prevent freezing.

Fig. 1902 is exactly the same as the pump described above with the exception that instead of the ordinary base, this pump is fitted with a hand hole, which permits the valve to be removed without disturbing the balance of the pump. Is not arranged to drop the water.

These pumps are designed for a warm climate, and for suction depth wells only.

PRICE LIST, Represented by Fig. 1901.

No. 215P, Myers Well Force Pump with 3 inch polished cylinder, tapped 1½ inch. Price ..... (*Pari*) .. **$17.50**

No. 216P, Myers Well Force Pump with 3½ inch polished cylinder, tapped 1½ inch. Price ..... (*Partry*) .. **21.00**

No. 217P, Myers Well Force Pump with 3 inch brass lined cylinder, tapped 1½ inch. Price ..... (*Party*) .. **21.00**

No. 218P, Myers Well Force Pump with 3½ inch brass lined cylinder, tapped 1½ inch. Price ..... (*Parvis*) .. **26.00**

PRICE LIST, Represented by Fig. 1902.

No. 215½P, Myers Well Force Pump with 3 inch polished cylinder, tapped 1½ inch. Price. (*Pas*) .. **$19.00**

No. 216½P, Myers Well Force Pump with 3½ inch polished cylinder, tapped 1½ inch. Price ..... (*Pasan*) .. **22.50**

No. 217½P, Myers Well Force Pump with 3 inch brass lined cylinder tapped 1½ inch. Price ..... (*Pasch*) .. **22.50**

No. 218½P, Myers Well Force Pump with 3½ inch brass lined cylinder, tapped 1½ inch. Price ..... (*Pascha*) .. **27.50**

The Advance Well Force Pump.

With Plunger Tube.

For Hand and Windmill Use.

With Perfect Brass Valve Seat.

7 inch Stroke.

Fig. 1903

Fig. 1904

Figs. 1903 and 1904 represent the Advance Well Force Pump built with cylinder in the main pump stand, with check valve at the base. The pump is complete within itself, has 1¼ Brass Plunger Tube with two leather upper Plunger instead of stuffing nut as formerly used, large air chamber, and is fitted with Brass Compression Cock Spout.

The handle and pump head are reversible, and can be located at any angle desired.

Fig. 1904 represents our latest improved Advance Well Force Pump, which is fitted with special base with hand hole. This pump is exactly the same as Fig. 1903, with the exception that it has a special base with hand hole, through which the valve and seat can be reached without ditsurbing any of the balance of the pump.

In adding this new feature, it has been designed so as to use this new base on the regular pump, no changes whatever being necessary except the base.

Fig. 1903 is arranged to drop the water by raising handle to highest point.

PRICE LIST, Represented by Fig. 1903.

No. 1215P, Advance Well Force Pump with 3 inch polished cylinder, tapped 1½ inch. Price ..... (*Pantry*) .. **$17.50**

No. 1216P, Advance Well Force Pump with 3½ inch poilshed cylinder, tapped 1½ inch. Price ..... (*Panym*) .. **21.00**

No. 1217P, Advance Well Force Pump with 3 inch brass lined cylinder, tapped 1½ inch. Price ..... (*Paola*) .. **21.00**

No. 1218P, Advance Well Force Pump with 3½ inch brass lined cylinder, tapped 1½ inch. Price ..... (*Pap*) .. **26.00**

PRICE LIST, Represented by Fig. 1904.

No. 1215½P, Advance Well Force Pump with 3 inch polished cylinder, tapped 1½ inch. Price ..... (*Papa*) .. **$19.00**

No. 1216½P, Advance Well Force Pump with 3½ inch polished cylinder, tapped 1½ inch. Price ..... (*Papain*) .. **22.50**

No. 1217½P, Advance Well Force Pump with 3 inch brass lined cylinder, tapped 1½ inch. Price ..... (*Papal*) .. **22.50**

No. 1218½P, Advance Well Force Pump with 3½ inch brass lined cylinder, tapped 1¼ inch. Price ..... (*Papaw*) .. **27.50**

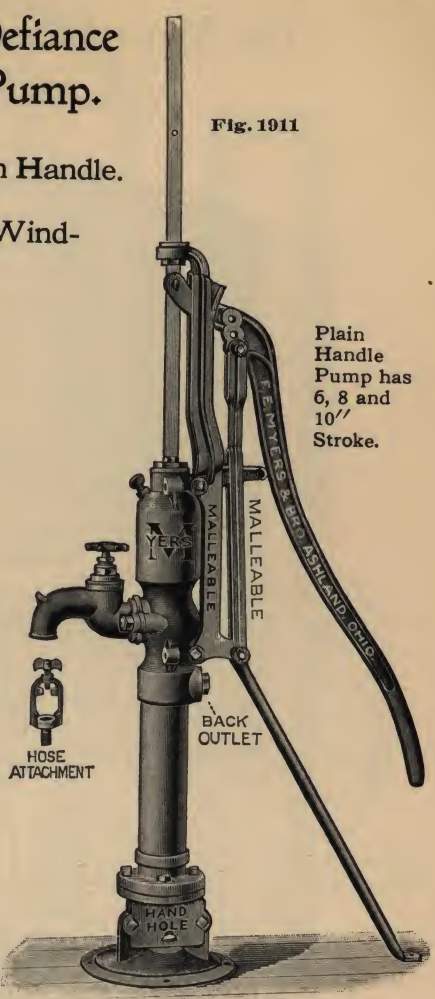
The Myers Defiance Well Force Pump.

Cog Gear and Plain Handle.

For Hand and Windmill Use.

Fig. 1910

Fig. 1911



Figs. 1910 and 1911 illustrate the Myers Defiance Well Force Pump as built with the cylinder and valve in the stand of the pump. It is fitted with 1¼ inch plunger tube and two leather plunger instead of stuffing box; has handhole in the base through which the valve and seat can be removed without disarranging any of the parts. The back outlet is tapped for 1½ inch pipe. Is fitted with the Myers Compression Bib Cock Spout as used on all Pump Stands. The handle is our patented rolling motion cog gear design; has malleable iron head and malleable fulcrum. The fulcrum connects directly to the brace, bringing all strain on the platform of the pump instead of opposite the stuffing box, as is the case with all other kinds of pumps. The brace is always under the handle.

Fig. 1911 is exactly the same pump as above described, with the exception that it has the plain pin handle with 6, 8 or 10 inch stroke instead of rolling motion cog gear.

PRICE LIST, Represented by Figs. 1910 and 1911.

No. R223P, Defiance Cog Gear Well Force Pump, Fig. 1910, with 3 inch polished iron cylinder and glass valve seat, tapped for 1½ inch back outlet. Price.....(*Thrive*).. **$19.00**

No. R224P, Defiance Cog Gear Well Force Pump, Fig. 1910, with 3 inch brass lined cylinder and glass valve seat, tapped for 1½ inch back outlet. Price.....(*Throat*).. **22.50**

No. 223P, Defiance Well Force Pump, Fig. 1911, with 3 inch polished iron cylinder and glass valve seat, tapped for 1½ inch back outlet. Price.....(*Throb*).. **19.00**

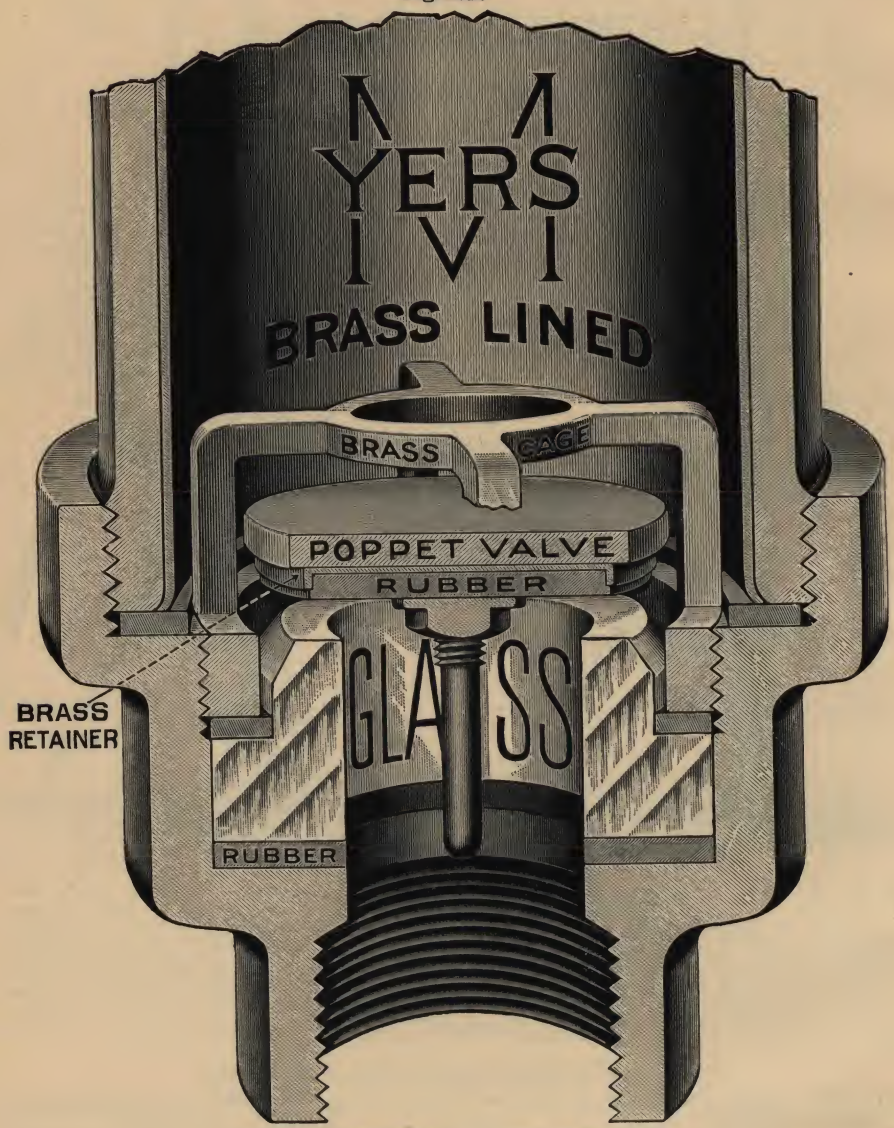
No. 224P, Defiance Well Force Pump, Fig. 1911, with 3 inch brass lined cylinder and glass valve seat, tapped for 1½ inch back outlet. Price.....(*Throe*).. **22.50**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

MYERS PUMP STANDARDS

With Cog Gear or Plain Head

FOR HAND OR WINDMILL POWER

MYERS Defiance Cog Gear Pump Standard is fitted with a patented cog gear handle, both cog segments of which are circular in shape, giving a rolling instead of sliding friction and reducing the power required to operate the pump 40 per cent. This, in connection with the malleable head and fulcrum, particularly adapts the pump to extraordinary hard service, and is recommended by us as the best pump standard that has ever been produced.

All Myers Stands are fitted with a removable bushing carrying 1¼, 1½ or 2 inch pipe, which with the adjustable stroke handle enables the dealer to carry the fewest possible number of pumps in stock and still be in position to supply all demands.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

The Myers Patented Cog Gear.

The Best by Test.

It Requires 33⅓% Less Power to Operate.

THE SCALES TELL THE STORY.

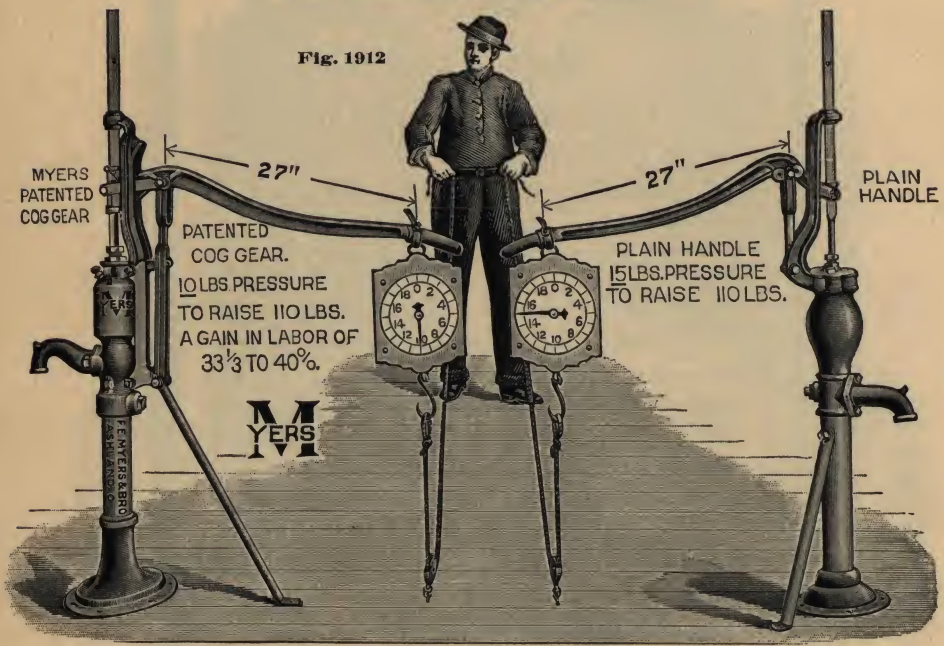


Fig. 1912

Sectional View of

Fig. 1912 illustrates the advantages of the Myers Cog Gear Pump as compared with the ordinary style pump. A glance at the scales shown in this test is certainly convincing. Note the scale on the plain handle pump indicates 15 lbs. pressure to raise 110 lbs., whereas the scale on the patented cog gear pump indicates 10 lbs. pressure to raise 110 lbs., **a gain in labor of 33 1-3 to 40 per cent.**

You will note further that the scale is located the same distance from the fulcrum in each case. We have always made the claim that the cog gear was the correct idea owing to its easy working qualities. To prove our statement we have had photographs made of the scale test which is illustrated above.

Cog gear pumps are especially adapted for deep well work, owing to the above facts. There is no reason why they are not advantageous when used in shallower wells for the reason that they can be operated with a larger cylinder, thus securing more water with the same labor.

We originated the cog gear and own the only live patents on the application of the cog gear to a pump stand. The special feature of the Myers Cog Gear is that we use a *rolling motion cog*, which eliminates the friction as against the old style cog gear using a sliding friction cog, which is the difference between success and failure. This rolling friction point is the patented feature on the Myers Cog Gear Pump Handle.

Another advantage is that the piston rod is moved in a perpendicular line, thus reducing the friction of the windmill bar in passing through the stuffing nut and guide. No roller needed.

The Myers line of Cog Gear Pumps covers every variety of pump made by us from a House Pump to a Stand for very deep well work. Other manufacturers may be able to furnish a few styles of pumps fitted with the old style cog gear handle, but no one else has a complete line, nor can they furnish the patented rolling motion cog gear as supplied on Myers Pumps.

The enlarged sectional view shows the patented rolling motion cog gear in detail.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Defiance Cog Gear Pump Stand.

Patented January 16, 1912.

With Malleable Iron Head, Cog Gear Handle and Long Malleable Iron Fulcrum.

Plain Spout.

Fig. 1896

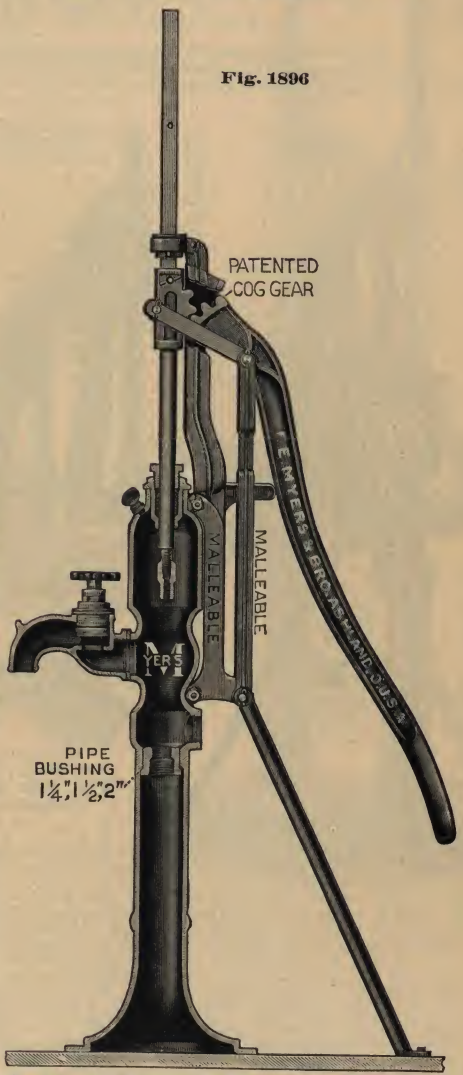


Fig. 1896 illustrates a sectional view of the Myers Defiance Cog Gear Pump Stand, showing all of the working parts in detail.

The special features of this Stand over others are, that the main head and handle fulcrum are made of malleable iron, saving considerable in the weight and yet making practically an indestructible pump. The malleable head is attached to the main pump standard by means of two heavy through bolts located one above and the other below the air chamber. The Stand is equipped with three sets of lugs so as to permit the handle beirg located on the right or left side of the pump, or directly opposite the spout. The entire strain of pumping is really on the platform, as the fulcrum from the handle is connected to the pump at the upper end of the brace. This brace, with the pump standard, forms a tripod, sustaining the strain of operation. Furthermore, the brace always follows the handle instead of being located at one particular point, regardless of the position of the handle, as is the case with other makes of pumps.

The Cog Gear is the Myers patent rolling motion cog held together by means of a patented strap, which eliminates all friction as in old style cog gears using a straight line cog supported by a roller.

The Piston Rod is 1⅛ inch shafting, which permits of the stuffing box being removed over the flat windmill bar. The lower end of the piston is threaded for ½ inch Rod, to which the malleable iron coupling is attached, the lower end of same being threaded on the outside for ⅜ inch pipe and on the inside for ⅜ inch rod. The flat windmill bar operates through a removable bearing.

The Stuffing Box is of unusual size, being 2½ inch in depth, containing more than twice the packing of any other pump standard.

The Cock Spout is the same as used on all Myers Pump Standards; is of the compression pattern—quick opening and closing by means of the hand wheel; is bolted to the pump head, and can be replaced by a plain spout when desired.

The Back Outlet is located opposite and just below the spout, from which the pump can be piped in any direction desired.

The Standard is tapped regularly for 2 inch pipe, and fitted with a Myers reducing bushing, which carries 1¼ and 1½ inch pipe, thus adapting the pump for use with any pipe from 1¼ to 2 inch.

The Base is of the round pattern, deeply recessed so as to permit the well pipe to extend above the platform of the well, which is thoroughly covered by the pump base, preventing surface water from running into the well.

We recommend the Myers Defiance Pump Stand and offer it to the trade as being the very best stand on the market. It is made in either Cog Gear as shown above, or plain pin handle as illustrated in the following pages.

The Myers Defiance Cog Gear Pump Standard.

Patented Jan. 16, 1912.

With Malleable Iron Head, Cog Gear and Long Fulcrum.

For Tubular or Other Wells.

Has 10 inch Stroke for Windmill and 7 inch Stroke for Hand Use.
Tapped for 2 inch Pipe and Bushed for 1⅛ and 1¼ inch Pipe.
Especially Adapted for Use in Very Deep Wells.

Fig. 1478

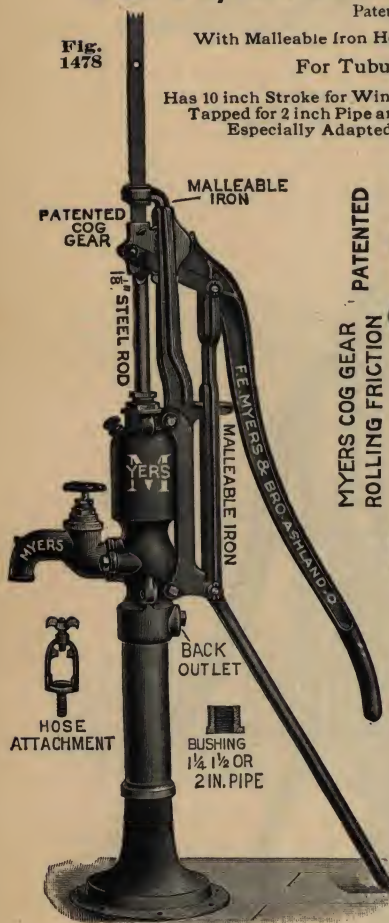
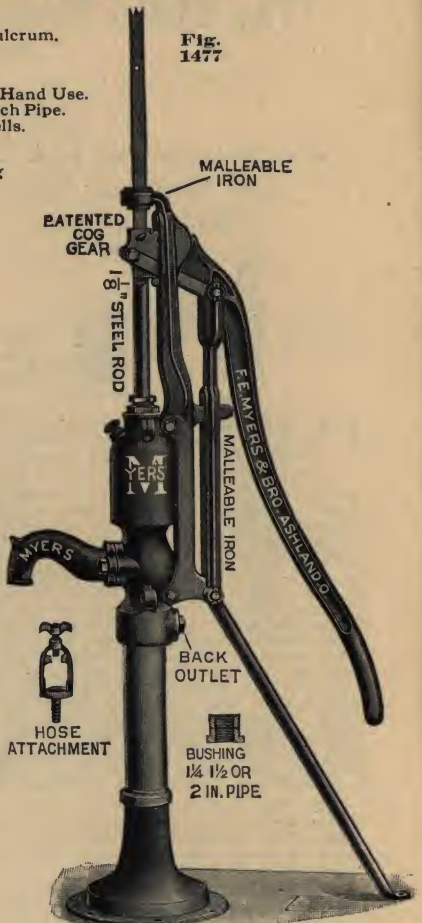


Fig. 1185

Fig. 1439 Rod Coupling.
⅝ x ⅜ Rod x ⅜ Pipe, Regular.

Fig. 1477



The Defiance Cog Gear Handle is our own patented design. The *circular* shape of *both cog segments*, as used by us, give a *rolling* instead of sliding friction, as used by others. This rolling friction reduces the power required to operate the pump. It is the original cog gear used in connection *with movable fulcrum*, and will work easier than any other.

Instead of using the old style set screws we use strong lugs, cast on the top and bottom of the air chamber at three separate points to which the head proper is bolted by means of heavy bolts. This permits the spout being located either on the right or left side or straight away from the handle.

The handle fulcrum is malleable iron of such length that the bearing comes half way down on the pump body and connects at that point with a wrought iron brace, which extends to the floor, thus forming a triangular brace, and bringing *the entire strain on the platform instead of the top of the pump*, as in other makes. The brace is always located under the handle. The piston rod is made of 1⅛ inch drawn polished steel rod, welded securely to the flat windmill bar, allowing the packing box to be removed by passing up over the flat bar. The back outlet is fitted for 1½ inch pipe.

PRICE LIST, Represented by Figs. 1477 and 1478.

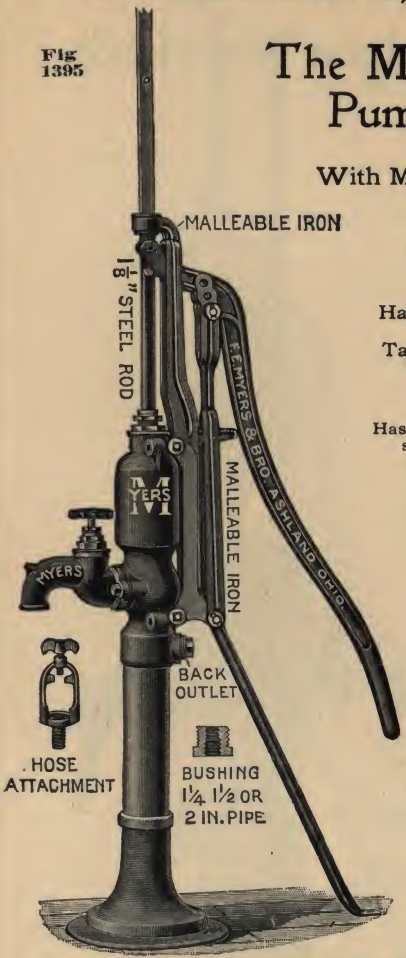
For 1¼, 1½ and 2 inch Pipe.

No. R94½, Defiance Cog Gear Force Stand, Cock Spout, Fig. 1478. Price.....(*Pitch*)..**$12.00**
No. R94, Defiance Cog Gear Force Stand, Plain Spout, Fig. 1477. Price.....(*Pit*).. **10.00**
No. R93, Defiance Cog Gear Lift Stand, similar to Fig. 1477. Price.....(*Pith*).. **8.75**

For 2½ inch Pipe.

No. R92½, Defiance Cog Gear Force Stand, with Cock Spout, Fig. 1478. Price....(*Think*)..**$13.25**
No. R92, Defiance Cog Gear Force Stand, with Plain Spout. Fig. 1477. Price....(*Thirl*).. **11.25**
No. R91, Defiance Cog Gear Lift Stand, similar to Fig. 1477. Price.....(*Thirst*).. **10.00**
For Brass Covered Rod on above Force Pumps add to the list..... **1.50**
If wanted for use with 4 inch cylinder, specify large Spout No. 2100.

Fig 1395



The Myers Defiance Pump Standard

Patented.

With Malleable Iron Head.

A New Departure.

For Tubular or Other Deep Wells.

Has 6, 8 and 10 inch Stroke.

Tapped for 2 inch Pipe and Bushed for 1½ and 1¼ inch Pipe.

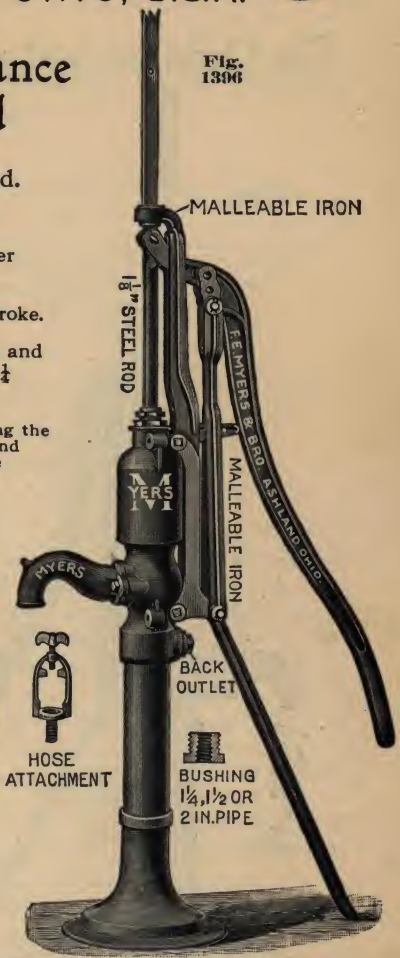
Has Long Fulcrum, bringing the strain on the platform and base instead of on the head of the pump, as in other makes.

Fig. 1185

Fig. 1439 Rod Coupling.

⅝ x ⅜ Rod x ⅜ Pipe, Regular.

Fig. 1396



Figs. 1395 and 1396 represent the Myers Defiance *Malleable Head* Lift and Force Pump Standard, an entirely new design of pump. One of the special features of this pump is that the entire Head and Handle Fulcrum are made from the best *Annealled Mallable Iron*, making the strongest possible construction and eliminating all breakage.

Instead of using the old style set screws we use strong lugs cast on the top and bottom of the air chamber at three separate points, to which the head proper is bolted by means of heavy bolts. This permits the spout being located either on the right or left side or straight away from the handle. Brace is always under the handle.

The handle fulcrum is malleable iron, and is of such length that the bearing comes half way down on the pump body and connects at that point with a wrought iron brace, which extends to the floor, thus forming a triangular brace, and bringing the entire strain on the platform instead of on the top of the pump, as in other makes. The piston rod is made of 1⅛ inch drawn polished steel rod, welded securely to the flat windmill bar, allowing the packing box to be removed by passing up over the flat bar. The back outlet is fitted for 1½ inch pipe.

PRICE LIST, Represented by Figs. 1395 and 1396.

6, 8 and 10 inch Adjustable Stroke.

For 1¼, 1½ and 2 inch Pipe.

No. 94½, Defiance Force Stand with Cock Spout, Fig. 1395. Price.....(*Partan*)..**$12.00**
No. 94, Defiance Force Stand with Plain Spout, Fig. 1396. Price.....(*Part*).. **10.00**
No. 93, Defiance Lift Stand, similar to Fig. 1396. Price.....(*Parter*).. **8.75**

For 2½ inch Pipe.

No. 92½, Defiance Force Stand with Cock Spout, Fig. 1395. Price.....(*Puller*)..**$13.25**
No. 92, Defiance Force Stand with Plain Spout, Fig. 1396. Price.....(*Pule*).. **11.25**
No. 91, Defiance Lift Stand, similar to Fig. 1396. Price.....(*Pukras*).. **10.00**
For Brass Covered Rod on the above Force Pumps add to the list..... **1.50**
If wanted for use with 4 inch cylinder, specify Large Spout No. 2100.

The Defiance and Ashland Tubular Well Stands.

Fitted With Brass Plunger Tube

PATENTED.

For Tubular or Other Deep Wells.

Has 6, 8 and 10 inch Stroke.

Tapped for 2 inch Pipe and Bushed for 1½ and 1¼ inch Pipe.

Fig. 1670

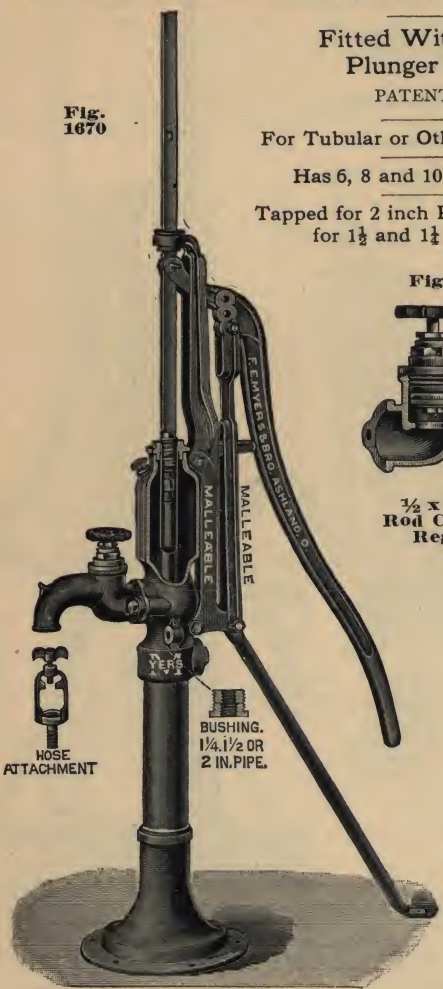


Fig. 1671

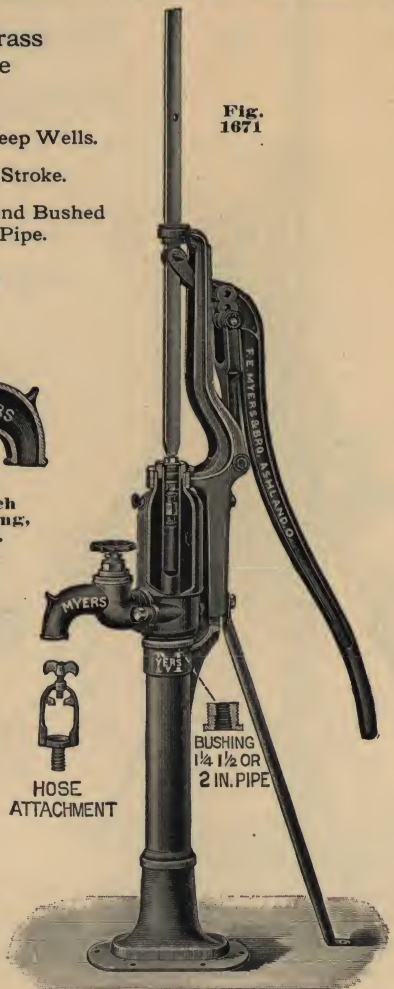
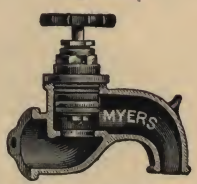


Fig 1185



½ x ⅜ inch Rod Coupling, Regular.

Figs. 1670 and 1671 illustrate the Defiance and Myers Tubular Well Stands as fitted with brass plunger tube instead of stuffing nut. This tube is made of seamless brass tubing 1¼ inch in diameter with a two-leather plunger, the leathers of which are inverted, making an absolute water tight packing and preventing any water from escaping through the tube, as is sometimes the case when the packing becomes worn in an ordinary stuffing nut. The two-leather plunger gives perfect alignment to the pump rod, preventing friction.

PRICE LIST, Represented by Figs. 1670 and 1671.

No. 94½P, Defiance Pump Stand, with plunger tube and cock spout, as shown in Fig. 1670. Price ..... (*Pussy*) .. **$12.50**

No. 117P, Myers Pump Stand, with plunger tube and cock spout, as shown in Fig. 1671. Price ..... (*Tenable*) .. **11.25**

COG GEAR HANDLE.

No. R94½P, Defiance Cog Gear Force Stand, with plunger tube and cock spout, similar to Fig. 1670. Price..... (*Thole*) .. **$12.50**

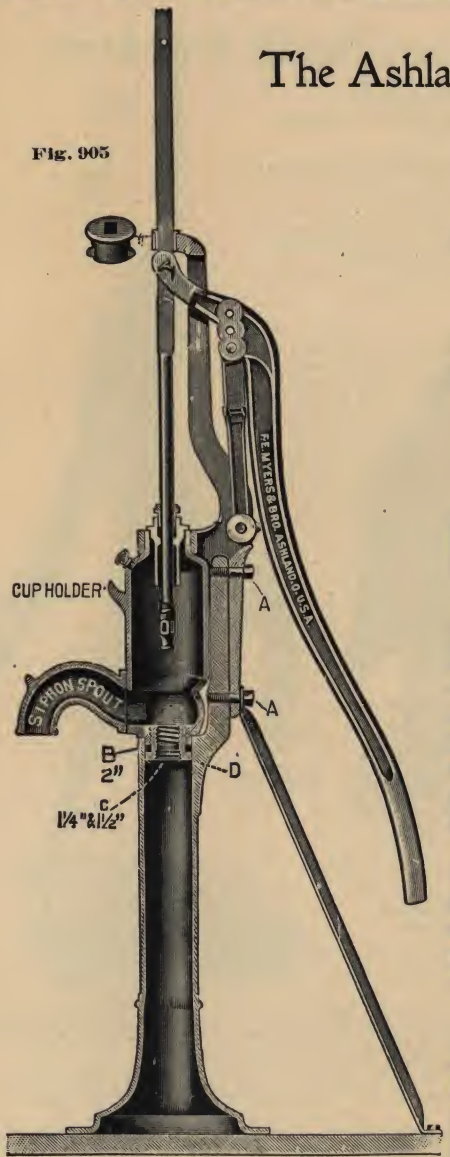
No. R117P, Myers Cog Gear Pump Stand, with plunger tube and cock spout, similar to Fig. 1671. Price ..... (*Thong*) .. **12.00**

The plunger tube can also be furnished on Pump Stands Nos. 94, 115, 115½ and 116 at an advance in the list of 65c each.

The Ashland Tubular Well Stand.

Patented.

Fig. 905



For Tubular or Other Wells.

Has 6, 8 and 10 Inch Adjustable Stroke; Short Stroke for Hand Use and 12 Inch for Windmill Use. Tapped for 1¼ and 1½ and 2 Inch Pipe.

Sectional View, Showing the Construction of the Tubular Well Stand, Force or Lift. The Brace Is Always Under the Handle.

Fig. 905 illustrates our Tubular Well Standard, either force or lift, cut in half, showing all parts in detail.

All Myers Stands are constructed on the same lines. The reservoir head, which also serves as an air chamber, is fitted with siphon spout, which throws a continuous stream. This head is tapped for a 2 inch pipe, as indicated at letter B. Into this head is screwed the reducer casting marked D. The lower end of D is tapped for 1¼ and 1½ inch pipe, as indicated at C.

When using the pump stand for 1¼ and 1½ inch pipe, it remains as shown. If it is desired to use 2 inch pipe, remove the casting D, which makes a tubular well stand, through which a 2 inch plunger can be withdrawn.

Instead of the old style set screws at top of stand, we use two ½ inch cap screws marked A, which pass through the pump head and engage with the pump stand proper, thus making a strong and desirable job.

Has heavy piston rod, *welded solid to flat steel bar;* no joints to get loose; has 6, 8 and 10 inch adjustable stroke, and heavy steel pins.

This illustration represents the force stand. The lift stand is the same in every respect, with the exception that instead of the stuffing box we use a tight cap; and on the lift stand the reducer casting D is much longer than shown in cut; this long casting is used only on lift pump.

In this pump stand we combine all the features embodied in six stands of any other make, a feature appreciated by all dealers and jobbers.

The Myers Cog Gear Pump Standard.

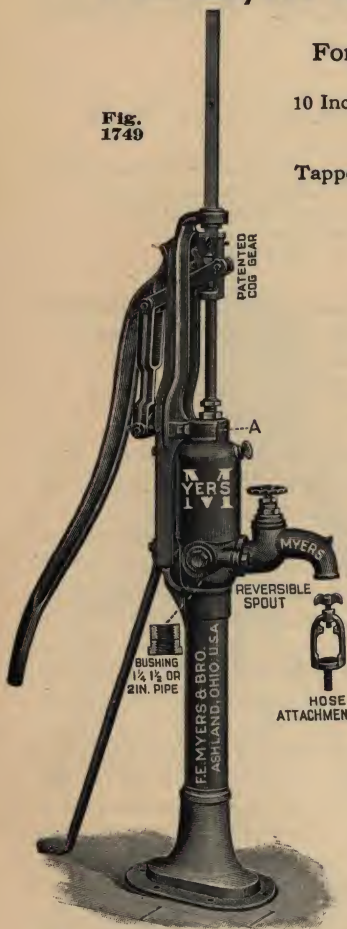
Patented.

For Tubular or Other Wells.

10 Inch Stroke for Windmill and 7 Inch Stroke for Hand Use.

Tapped for 2 Inch Pipe and Bushed for 1½ and 1¼ Inch Pipe.

Fig. 1749



Especially Adapted for Use in Deep Wells.

All Force Pumps With Windmill Head Fitted With Bolted Spout and Back Outlet

Fig. 1439 Rod Coupling.

⅝ x ⅜ Rod x ⅜ Pipe, Regular.

Fig. 1750

Figs. 1749 and 1750 represent the Myers Cog Gear Stand, as made for hand and windmill use, with cog gear handle. The advantage of this style head is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the ordinary handle.

The force stand can be fitted with cock spout similar to Fig. 1749. Back outlet, 1½ inch.

The circular shape of both cog segments, as used by us, gives a rolling instead of sliding friction, as used by others. This rolling friction reduces the power required to operate the pump 33⅓%, causing it to work easier than any other.

This line of Stands has been improved to the extent that we eliminate all set screws, hook bolts, etc. The pump head proper is attached to the main stand by means of two heavy cap screws. The head is further attached to the air chamber by means of a clamp, as shown at (A). Note that this clamp is formed by a bolt passing entirely through the pump head, making a construction that is practically unbreakable and better than set screws or hook bolts. The brace is always under the handle.

PRICE LIST, Represented by Figs. 1749 and 1750.

No. R117, Myers Cog Gear Force Stand with Cock Spout, Fig. 1749. Price....(*Radductor*).. **$11.25**
No. R116, Myers Cog Gear Force Stand with Plain Spout, Fig. 1750. Price.....(*Sandes*).. **9.50**
No. R112, Myers Cog Gear Lift Stand, similar to Fig. 1750. Price.....(*Radmire*).. **8.25**
No. R98, Myers Cog Gear Force Stand, Fig. 1750, with large spout for 4 inch cylinder. Price .....(*Rnab*).. **9.50**
No. R99, Myers Cog Gear Lift Stand, similar to Fig. 1750, with large spout for 4 inch cylinder. Price .....(*Rnabit*).. **8.25**
For Brass Covered Rod on above Force Pumps add to the list..... **1.25**

The Myers Tubular Well Stand.

Patented.

For Tubular or Other Wells.

6, 8 and 10 Inch Stroke for Hand and Up to 12 Inch Stroke for Windmill.

Tapped for 2 Inch Pipe and Bushed for 1½ and 1¼ Inch Pipe.

Fig. 1751

The *Cock Spout*, Fig. 1185, used on these pumps, is of the compression pattern with hand wheel located above the spout. It is fitted with rubber faced valve, and operated by means of a hand wheel, which makes a positive and quick shut off. The entire mechanism can be removed through the top of the spout by the use of an ordinary wrench. It is fitted with a flange face which bolts directly to a faced surface on the side of the pump head. and is held in position by means of two cap screws. The plain and cock spouts interchange on the same pump.

Fig 1185

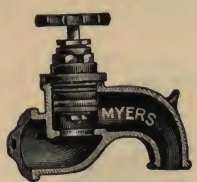


Fig. 1752

Fig. 1439 Rod Coupling.
⅝ x ⅜ Rod x ⅜ Pipe, Regular.

Figs. 1751 and 1752 represent our Improved Deep Well Stands, which embody more practical features than any other similar stands on the market. See full description under Fig. 905.

The Myers Improved Tubular Well Pump Standard as illustrated above, is our own patented design. This line of Stands has been improved to the extent that we eliminate all set screws, hook bolts, etc. The pump head proper is attached to the main stand by means of two heavy cap screws. The head is further attached to the air chamber by means of a clamp as shown at (A). Note that this clamp is formed by a bolt passing entirely through the pump head, making a construction that is practically unbreakable and better than set screws or hook bolts. Back outlet, 1½ inch.

This pump can be changed to cog gear head by removing the handle and fulcrum.

The brace is always under the handle.

PRICE LIST, Represented by Figs. 1751 and 1752.

6, 8 and 10 inch Adjustable Stroke.

No. 117,	Myers Force Stand with Cock Spout, Fig. 1751. Price	*(Adductor)*	**$10.75**
No. 116,	Myers Force Stand with Plain Spout, Fig. 1752. Price	*(Adduce)*	**8.75**
No. 112,	Myers Lift Stand, similar to Fig. 1752. Price	*(Admire)*	**7.50**
No. 98,	Myers Force Stand, similar to Fig. 1752, with large spout for 4 inch cylinder. Price	*(Baited)*	**8.75**
No. 99,	Myers Lift Stand, similar to Fig. 1752, with large spout for 4 inch cylinder. Price	*(Bayley)*	**7.50**

6 inch Stroke.

No. 115½,	Myers Force Stand with Cock Spout, 6 inch stroke. Price	*(Adit)*	**$10.00**
No. 115,	Myers Force Stand with Plain Spout, 6 inch stroke. Price	*(Adze)*	**8.25**
No. 113,	Myers Lift Stand, 6 inch stroke. Price	*(Baby)*	**7.00**
For Brass Covered Rod on any of the above Force Pumps, add to the list			**1.25**

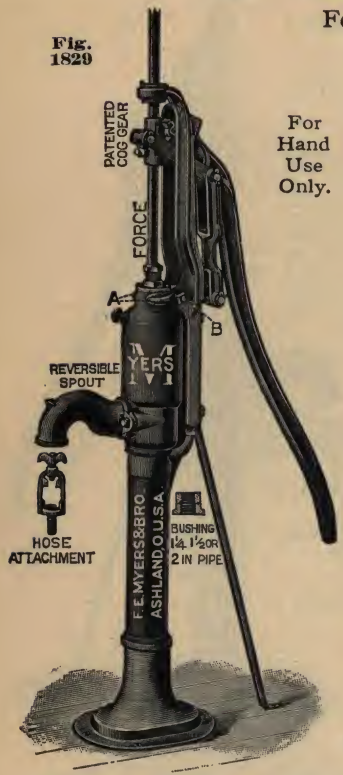
The Myers Cog Gear and Pin Handle Pump Standard.

Patented.

Tapped for 2 Inch Pipe and Bushed for 1½ and 1¼ Inch Pipe.

For Tubular or Other Wells.

Fig. 1829



For Hand Use Only.

Cog Gear. 7 inch Stroke.

Fig. 1185

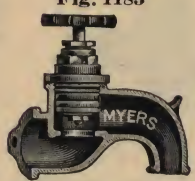


Fig. 1439 Rod Coupling.

⅝ x ⅜ Rod x ⅜ Pipe, Regular.

Fig. 683

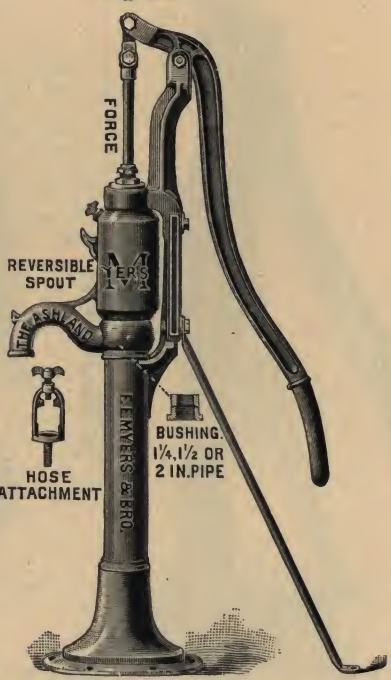


Fig. 1829 represents the Myers Cog Gear Stand for hand use. The advantage of this style head is that it allows the piston to move in a direct line. It does away with all friction guides.

Another advantage of this style fulcrum is that it gives a 7 inch stroke with a 3 inch fulcrum, as against the 5½ inch fulcrum with the ordinary style handle. *This special leverage adapts the pump to deep wells.*

The general construction of this stand, with the exception of the handle fulcrum and handle, is exactly the same as our Ashland Tubular Well Stand, as shown under Fig. 905. The force stand can be fitted with cock spout similar to Fig. 1185. Back outlet, 1½ inch.

Fig. 683. Same pump with plain handle.

PRICE LIST, Represented by Fig. 1829.

No. R110½,	Cog Gear Force Stand with Cock Spout. Price	*(Rbacore)*	**$10.00**
No. R110,	Cog Gear Force Stand, Fig. 1829. Price	*(Rbeacon)*	**8.25**
No. R111,	Cog Gear Lift Stand, similar to Fig. 1829. Price	*(Rbacon)*	**7.00**
No. R96,	Cog Gear Force Stand, Fig. 1829, with large spout for 4″ cylinder. Price	*(Rnag)*	**8.25**
No. R97,	Cog Gear Lift Stand with large spout for 4″ cylinder. Price	*(Rnagit)*	**7.00**

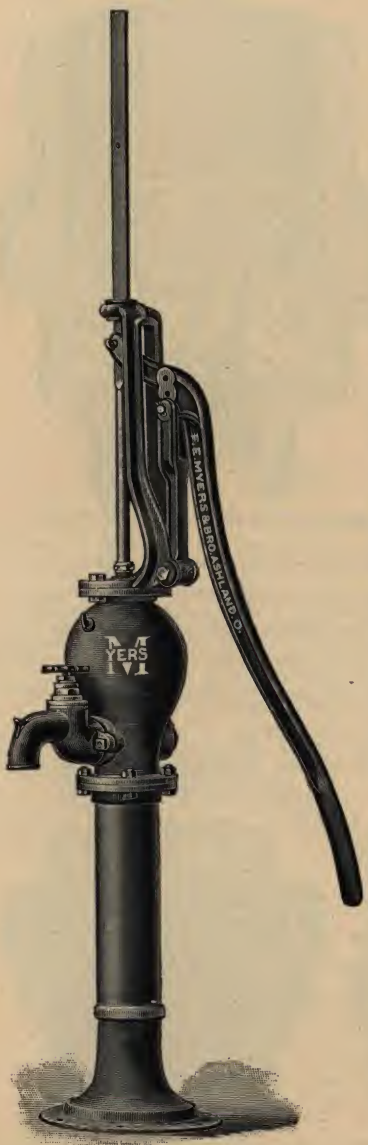
PRICE LIST, Represented by Fig. 683.

No. 110½,	Myers Force Stand, Fig. 683, with Cock Spout like Fig. 1185. Price	*(Bacore)*	**$9.50**
No 110,	Myers Force Stand, Fig. 683, with Plain Spout. Price	*(Beacon)*	**7.50**
No. 111,	Lift Stand similar to Fig. 683 Plain Spout. Price	*(Bacon)*	**6.25**
No. 96,	Myers Force Stand, Fig. 683, with large spout for 4″ cylinder. Price	*(Baiter)*	**7.50**
No. 97,	Myers Lift Stand, similar to Fig. 683, with large spout for 4″ cylinder. Price	*(Baiting)*	**6.25**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Tubular Well Stand.

Fig. 1552



As Made in the Largest Size.

Tapped for 3 Inch Pipe.

6, 8 and 10 Inch for Hand Use and
15 Inch Stroke for Windmill.

Fig. 1552 represents the Myers Tubular Well Stand as built for extremely heavy work and especially adapted for long stroke windmills. The pump is constructed with flange joint below and above the spout. These joints are bolted with three bolts, drilled to a templet, which permits of the spout or handle being set on any quarter. The piston rod and flat bar are thoroughly welded together, thus doing away with unnecessary joints. The pump head is tapped for 3 inch pipe and so arranged that the plunger can be withdrawn through the top of the pump without disarranging any of the parts. The back outlet is tapped for 2 inch pipe. Is built either with plain or cock spout.

Fig. 439 Coupling.
5/8 x 3/8 Rod x 3/8 Pipe—Regular.

PRICE LIST.

No. 95, Myers Tubular Well Force Stand, tapped for 3 inch pipe with plain spout. Price .....(*Ape*)..**$12.50**

No. 95½, Myers Tubular Well Force Stand, tapped for 3 inch pipe and fitted with cock spout as shown in Fig. 1552. Price.(*Prolix*).. **15.00**
With Brass Covered Rod, add to list.... **1.25**

The Myers Improved Patent Ground Glass Valve Seat and Patent Drop Valve.

The Patent Glass Valve Seat and Poppet Valve are Used Only on Myers Pumps.

Fig. 883

Enlarged View, Illustrating Patent Glass Seat and Poppet Valve.

Fig. 577

Brass Lined Cylinder. Capped Outside.

We use the *Patent Glass Valve Seat* because *glass* is the only material that will not *corrode* or *rust* and accumulate a vitrous substance which *hardens the leathers* and causes *the pump to lose priming*, as is the case with brass, iron or any other metal.

THE VALVE is of the poppet pattern, fitted with a specially prepared rubber face. This rubber is pure Para, interlined with layers of strong canvas, and is enclosed in a brass retainer that prevents its spreading or getting out of shape when used continually, or being crushed when under heavy pressure.

The poppet valve is held in position by a heavy brass cage (see Fig. 883). This also holds the glass seat firmly in position. The action of the valve is always perpendicular, *rising clear* of the seat at each stroke, thus clearing itself of all foreign substances which is not the case with a hinge valve.

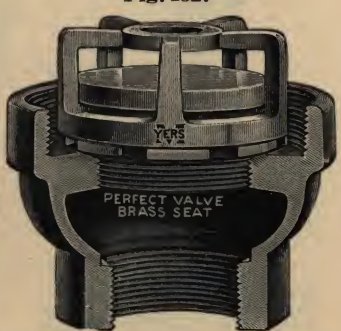
RUBBER vs. LEATHER in Check Valves. The advantage of the former is, that having more life it expels sand or gravel, whereas leather retains it and causes the pump to lose priming.

The Myers Perfect Valve and Brass Seat.

Fig. 1516

Fig. 1526

Fig. 1527



The above cuts illustrate the Myers Perfect Valve and Brass Seat, as furnished regularly in all *Brass Lined and Brass Body* cylinders listed with brass seat. The seat is brass, thoroughly machined and threaded to screw into the cap on top of a leather gasket, which insures a water tight joint. The valve weight is brass recessed to receive the rubber disc facing. This recess prevents the rubber from being forced out of shape and is especially adapted to deep well work.

MYERS LIFT AND SINGLE ACTING FORCE PUMPS

FOR HAND OR WINDMILL POWER

4 Ft. Set Length Anti-Freezing

For Outdoor Use

For Shallow or Deep Wells

The Cog Gear Head, which reduces the power necessary to operate the pump 40 per cent., adapts the line to deep well work, or the use of larger cylinders in shallower wells or cisterns.

ARE MADE WITH BRASS, BRASS-LINED OR POLISHED IRON CYLINDERS

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

PATENTED

Fig. 1830

The Myers Cog Gear Lift Pump.

Patented.

With Adjustable Base and Reversible Spout.

Has Patent Glass Valve Seat and Poppet Valve.

Anti-Freezing.

PATENTED COG GEAR

Fig. 1917

Fig. 1830 represents our new Lift Pump with rolling motion cog gear handle. This style handle is especially adapted to deep well work, owing to the advantage of the superior leverage, with short fulcrum and long handle.

The spout is attached to the pump head by means of a bolted flange union, making it reversible. The water flows from the spout in a smooth, even stream, equal to that of any double acting force pump.

NOTE.—The Pump Rod is held by set screw. This permits the adjustment of rod and plunger, *after which* the rod can be cut off. This does away with the careful fitting of rod before putting pump together.

PRICE LIST, Represented by Fig. 1830.

Fitted with Brass Lined or Polished Iron Cylinders and Glass Valve Seat.

4 FOOT SET LENGTH.

Capacity, 306 gallons per hour.

No. R1050, has a 2½ inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tiara*)..**$ 9.50**

Capacity, 440 gallons per hour.

No. R1052, has a 3 inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tibu*).. **10.00**

Capacity, 600 gallons per hour.

No. R1054, has a 3½ inch brass lined cylinder, with glass seat, tapped for 1½ inch pipe. Price.....(*Tical*).. **11.25**

Capacity, 440 gallons per hour.

No. R1056, has a 3 inch polished iron cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tick*).. **8.75**

Capacity, 600 gallons per hour.

No. R1057, has a 3½ inch polished iron cylinder, with glass seat, tapped for 1½ inch pipe. Price.....(*Ticker*).. **10.00**

No. R1058, has 3 inch polished iron cylinder, with iron valve seat, tapped for 1¼ inch pipe. Price.....(*Threat*).. **7.50**

No. R1059, has 3½ inch polished iron cylinder, with iron seat, tapped for 1½ inch pipe. Price.....(*Threme*).. **8.75**

Fitted with Brass Cylinders and Glass Valve Seat.

Capacity, 306 gallons per hour.

No. R1051, has a 2½ inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Ticket*).. **10.75**

Capacity, 440 gallons per hour.

No. R1053, has a 3 inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tickle*).. **11.25**

Capacity, 600 gallons per hour.

No. R1055, has a 3½ inch brass cylinder, with glass valve seat, tapped, for 1½ inch pipe. Price.....(*Tidal*).. **12.50**

PATENTED

The Myers Cog Gear Single Acting Force Pump.

Patented.

With Adjustable Base and Reversible Spout.

Has Patent Glass Valve Seat and Poppet Valve.

Anti-Freezing.

Fig. 1898 represents the Myers Cog Gear Single Acting Force Pump. The advantage of this style handle is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the ordinary handle.

This extra leverage adapts the pump to deep wells.

The spout is attached to the pump head by means of bolted flanged union, making it reversible.

The water flows from the spout in a smooth, even stream, equal to that of any double acting force pump.

NOTE.—The pump rod is held by set screw. This permits the adjustment of rod and plunger, *after which* the rod can be cut off. This does away with the careful fitting of rod before putting pump together.

PRICE LIST, Represented by Fig. 1898.

Fitted with Brass Lined or Polished Iron Cylinder and Glass Valve Seat.

4 FOOT SET LENGTH.

Capacity, 306 gallons per hour.

No. R1070, has a 2½ inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tide*).. **$10.75**

Capacity, 440 gallons per hour.

No. R1072, has a 3 inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tided*).. **11.25**

Capacity, 600 gallons per hour.

No. R1074, has a 3½ inch brass lined cylinder, with glass seat, tapped for 1½ inch pipe. Price.....(*Tidy*).. **12.50**

Capacity, 440 gallons per hour.

No. R1076, has a 3 inch polished iron cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tie*).. **10.00**

Capacity, 600 gallons per hour.

No. R1077, has a 3½ inch polished iron cylinder, with glass seat, tapped for 1½ inch pipe. Price.....(*Tied*).. **11.25**

No. R1078, has 3 inch polished iron cylinder, with iron valve seat, tapped for 1¼ inch pipe. Price.....(*Thrice*).. **8.75**

No. R1079, has 3½ inch polished iron cylinder, with iron valve seat, tapped for 1½ inch pipe. Price.....(*Thrift*).. **10.00**

Fitted with Brass Cylinder and Glass Valve Seat.

Capacity, 306 gallons per hour.

No. R1071, has a 2½ inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tierce*).. **$12.00**

Capacity, 440 gallons per hour.

No. R1073, has a 3 inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Tiff*).. **12.50**

Capacity, 600 gallons per hour.

No. R1075, has a 3½ inch brass cylinder, with glass valve seat, tapped for 1½ inch pipe. Price.....(*Tige*).. **13.75**

Fig. 792

The Myers Lift Pump.

With Patent Glass or Brass Seat.

Adjustable Base.

Has patent syphon spout and reservoir head, which throws a continuous stream and *always gives satisfaction.*

PRICE LIST, Represented by Fig. 792.

Fitted with Brass Lined or Polished Cylinder.

4 FOOT SET LENGTH.

Capacity, 306 gallons per hour.

No. 126, has a 2½ inch brass lined cylinder, with brass seat, tapped for 1¼ inch pipe. Price .....(*Bane*).. **$9.00**

No. 126½, has a 2½ inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Bore*).. **9.50**

Capacity, 440 gallons per hour.

No. 128, has a 3 inch brass lined cylinder, with brass seat, tapped for 1¼ inch pipe. Price .....(*Bank*).. **9.50**

No. 128½, has a 3 inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price .....(*Boss*).. **10.00**

Capacity, 600 gallons per hour.

No. 130, has a 3½ inch brass lined cylinder, with brass seat, tapped for 1½ inch pipe. Price .....(*Bark*).. **10.75**

No. 130½, has a 3½ inch brass lined cylinder, with glass seat, tapped for 1½ inch pipe. Price.....(*Bottom*).. **11.25**

Capacity, 440 gallons per hour.

No. 124, has a 3 inch polished iron cylinder, with iron seat, tapped for 1¼ inch pipe. Price.....(*Bedlam*).. **7.50**

Capacity, 600 gallons per hour.

No. 125, has a 3½ inch polished iron cylinder, with iron seat, tapped for 1½ inch pipe. Price.....(*Belinda*).. **8.75**

Fitted with Brass Cylinder.

Capacity, 306 gallons per hour.

No. 127, has a 2½ inch brass cylinder, with brass seat, tapped for 1¼ inch pipe. Price. .....(*Bath*)..**$10.25**

No. 127½, has a 2½ inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Bone*).. **10.75**

Capacity, 440 gallons per hour.

No. 129, has a 3 inch brass cylinder, with brass seat, tapped for 1¼ inch pipe. Price. .....(*Batch*).. **10.75**

No. 129½, has a 3 inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price.....(*Bowl*).. **11.25**

Glass Seat specified in list.

Brass Seat specified in list.

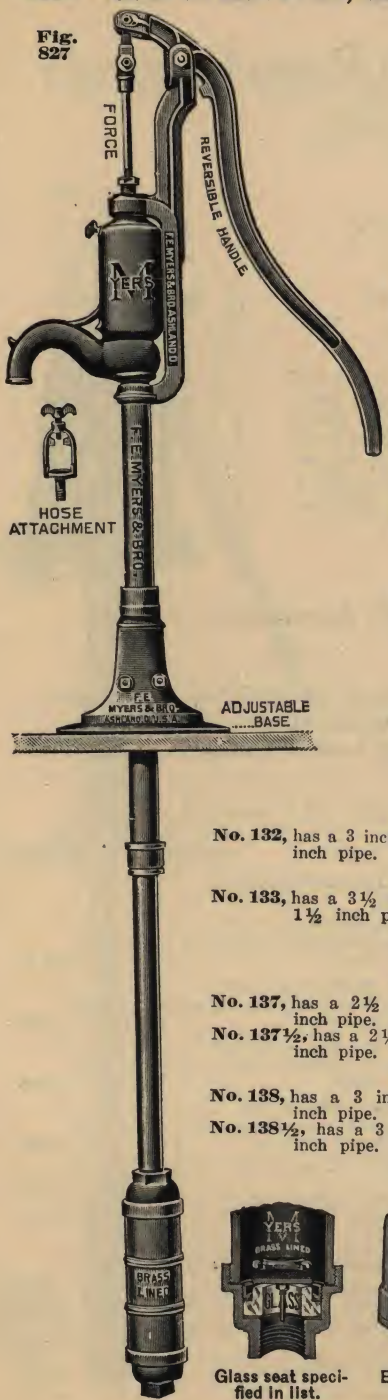
Capacity, 600 gallons per hour.

No. 131, has a 3½ inch brass cylinder, with brass seat, tapped for 1½ inch pipe. Price .....(*Bay*).. **12.00**

No. 131½, has a 3½ inch brass cylinder, with glass valve seat, tapped for 1½ inch pipe. Price. .....(*Book*).. **12.50**

For windmill head, add to list.....(*Zebra*).. **1.25**

Fig. 827



The Myers Single Acting Force Pump with Adjustable Base.

With Patent Glass or Brass Seat.

Has patent siphon spout and reservoir head, which throws a continuous stream and *always gives satisfaction.*

PRICE LIST, Represented by Fig. 827.

4 FOOT SET LENGTH.

Capacity, 306 gallons per hour.

No. 134, has a 2½ inch brass lined cylinder, with brass seat, tapped for 1¼ inch pipe. Price. . . . . (*Biased*) . . **$10.25**

No. 134½, has a 2½ inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price . . . . . (*Bide*) . . **10.75**

Capacity, 440 gallons per hour.

No. 135, has a 3 inch brass lined cylinder, with brass seat, tapped for 1¼ inch pipe. Price . . . . . (*Bider*) . . **10.75**

No. 135½, has a 3 inch brass lined cylinder, with glass seat, tapped for 1¼ inch pipe. Price . . . . . (*Bid*) . . **11.25**

Capacity, 600 gallons per hour.

No. 136, has a 3½ inch brass lined cylinder, with brass seat, tapped for 1½ inch pipe. Price . . . . . (*Bidden*) . . **12.00**

No. 136½, has a 3½ inch brass lined cylinder, with glass seat, tapped for 1½ inch pipe. Price . . . . . (*Baird*) . . **12.50**

Capacity, 440 gallons per hour.

No. 132, has a 3 inch polished iron cylinder, with iron seat, tapped for 1¼ inch pipe. Price. . . . . (*Biar*) . . **8.75**

Capacity, 600 gallons per hour.

No. 133, has a 3½ inch polished iron cylinder, with iron seat, tapped for 1½ inch pipe. Price. . . . . (*Biard*) . . **10.00**

Fitted with Brass Cylinder.

Capacity, 306 gallons per hour.

No. 137, has a 2½ inch brass cylinder, with brass seat, tapped for 1¼ inch pipe. Price. . . . . (*Biff*) . . **$11.50**

No. 137½, has a 2½ inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price. . . . . (*Biffer*) . . **12.00**

Capacity, 440 gallons per hour.

No. 138, has a 3 inch brass cylinder, with brass seat, tapped for 1¼ inch pipe. Price. . . . . (*Big*) . . **12.00**

No. 138½, has a 3 inch brass cylinder, with glass seat, tapped for 1¼ inch pipe. Price. . . . . (*Bigger*) . . **12.50**

Capacity, 600 gallons per hour.

No. 139, has a 3½ inch brass cylinder, with brass seat, tapped for 1½ inch pipe. Price . (*Biggest*) . . **13.25**

No. 139½, has a 3½ inch brass cylinder, with glass valve seat, tapped for 1½ inch pipe. Price. . . (*Bigot*) . . **13.75**

For windmill head, add to list. . (*Zebra*) . . **1.25**

Glass seat specified in list.

Brass seat specified in list.

The Myers Cog Gear Lift Pump for Farm and Stock Use.

PATENTED.

Anti - Freezing.

7 Inch Stroke.

Fig. 1170 represents the Myers Cog Gear Handle Stock Pump which is strong and substantially made. The special leverage adapts it to use with 4 inch cylinder, for wells up to 50 feet.

PRICE LIST, Represented by Fig. 1170.

Fitted with Brass, Brass Lined or Polished Iron Cylinder, Glass Valve Seat and Special Plunger.

4 FOOT SET LENGTH.

With Brass Lined Cylinder.

Capacity, 306 gallons per hour.

No. R101½, has 2½ inch brass lined cylinder, with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Pulsate*).. **$11.50**

Capacity, 440 gallons per hour.

No. R102, has a 3 inch brass lined cylinder, with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Pulse*).. **12.00**

Capacity, 600 gallons per hour.

No. R103, has a 3½ inch brass lined cylinder, with glass valve seat, tapped for 1½ inch pipe. Price.....(*Pumice*).. **13.25**

Capacity, 800 gallons per hour.

No. R104, has a 4 inch brass lined cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price.....(*Rbazaar*).. **18.00**

No. R109, has a 4 inch brass cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price.....(*Rbehind*).. **20.00**

No. R104½, has a 4 inch polished iron cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price.....(*Punner*).. **15.50**

With Brass Cylinder, Capped on the Inside.

No. R101, has a 2½ inch brass cylinder, with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Pumpet*).. **12.75**

No. R107, has a 3 inch brass cylinder, with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Pun*).. **13.25**

No. R108, has a 3½ inch brass cylinder, with glass valve seat, tapped for 1½ inch pipe. Price.....(*Punch*).. **14.50**

For windmill head on any of the above pumps, add to list.....(*Zebra*).. **1.25**

The Myers Cog Gear Force Pump for Farm and Stock Use.

PATENTED.

Fig. 1935

Anti - Freezing.

7 Inch Stroke.

The Myers Cog Gear Handle Stock Pump is strong and substantially made. The special leverage adapts it to use with 4 inch cylinder, for wells up to 50 feet.

PRICE LIST, Represented by Fig. 1935.

Fitted with Brass, Brass Lined or Polished Iron Cylinder, Glass Valve Seat and Special Plunger.

4 FOOT SET LENGTH.

Capacity, 300 gallons per hour.

No. R200, has a 2½ inch brass lined cylinder, with glass valve seat, tapped for 1¼ inch suction pipe. Price (*Pundit*) . . **$12.75**

Capacity, 440 gallons per hour.

No. R202, has a 3 inch brass lined cylinder, with glass valve seat, tapped for 1¼ inch suction pipe. Price . . . (*Pung*) . . **13.25**

Capacity, 600 gallons per hour.

No. R204, has a 3½ inch brass lined cylinder, with glass valve seat, tapped for 1½ inch suction pipe. Price . (*Punic*) . . **14.50**

Capacity, 800 gallons per hour.

No. R105, has a 4 inch brass lined cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price . . . . (*Rbijou*) . . **19.25**

No. R106, has a 4 inch brass cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price . . . . . (*Rbijure*) . . **21.25**

No. R105½, has a 4 inch polished iron cylinder, with glass valve seat, tapped for 2 inch suction pipe. Price . . (*Puno*) . . **16.75**

With Brass Cylinder and Glass Valve Seat.

No. R201, has a 2½ inch brass cylinder, with glass valve seat, tapped for 1¼ inch suction pipe. Price . . . (*Punish*) . . **$14.00**

No. R203, has a 3 inch brass cylinder, with glass valve seat, tapped for 1¼ inch suction pipe. Price . . (*Punkah*) . . **14.50**

No. R205, has a 3½ inch brass cylinder, with glass valve seat, tapped for 1½ inch suction pipe. Price . . (*Punkie*) . . **15.75**

For windmill head on any of the above pumps, add to list. (*Zebra*) . . **1.25**

For cock spout, add to list **2.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Ashland Lift and Force Pump for Farm and Stock Use.

PATENTED.

With Reversible Siphon Spout, Six Inch Stroke, Brass Lined Cylinder and Glass Valve Seat.

Fig. 825 represents the Ashland Lift Pump for farm and stock use. The pump is heavy, strong and substantial. Has brace not shown in cut.

PRICE LIST, Represented by Figure 825.

Fitted with Brass, Brass Lined or Polished Iron Cylinder, Glass Valve Seat and Special Plunger.

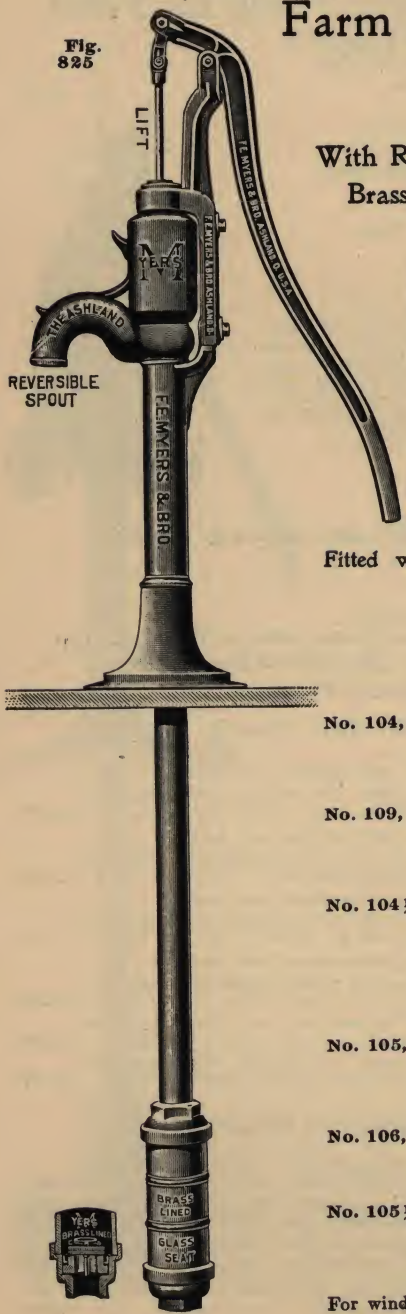


Fig. 825

4 FOOT SET LENGTH.

Lift Pump

No. 104, has a 4 inch brass lined cylinder, capped on the outside, with latest improved glass valve seat, 4 feet below the platform, tapped for 2 inch suction pipe
Price .....(*Bazaar*).. **$18.00**

No. 109, has a 4 inch brass cylinder, capped on the inside with latest improved glass valve seat, 4 feet below the platform, tapped for 2 inch suction pipe.
Price .....(*Behind*).. **20.00**

No. 104½, has a 4 inch polished iron cylinder, capped on the outside with latest improved glass valve seat, 4 feet below the platform, tapped for 2 inch suction pipe.
Price .....(*Punster*).. **15.50**

Force Pump

No. 105, has a 4 inch brass lined cylinder, capped on the outside, with latest improved glass valve seat, 4 feet below the platform, tapped for 2 inch suction pipe.
Price .....(*Bijou*).. **$19.25**

No. 106, has a 4 inch brass cylinder, capped on the inside, with latest improved glass valve seat, 4 feet below platform, tapped for 2 inch suction pipe.
Price .....(*Bijure*).. **21.25**

No. 105½, has a 4 inch polished iron cylinder, capped on the outside, with latest improved glass valve seat, 4 feet below the platform, tapped for 2 inch suction pipe.
Price .....(*Punt*).. **16.75**

For windmill head on any of the above pumps, add to list .....(*Zebra*).. **1.25**

Fig. 1842.

The Defiance Stock and Town Pump.

Cog Gear.

7 Inch Stroke for Hand Use.

This Pump is Designed for Heavy Work. Is a Great Favorite with Stock Men.

Anti-Freezing.

Extra Heavy. **4 Ft. Set Length.**

Fig. 1842 illustrates the Myers Defiance Stock and Town Pump with malleable iron head and handle fulcrum. This pump is fitted with our patented Cog Gear Head, which reduces the power required to operate 33⅓%, making it an exceptionally desirable pump on account of the large size cylinders and their corresponding capacity and the power ordinarily needed in pumping. The piston rod is round drawn steel with guide above and below the handle connection. The base and body are large and heavy, waterways are unrestricted, and the set length is 4 feet in length.

For strength, ease of operation, capacity and uniform service, this pump is equalled by very few now on the market.

PRICE LIST, Represented by Fig. 1842.

No. R120, has a 5 inch brass lined cylinder, tapped for 2½ inch suction pipe. Price..(*Tetra*) **$30.00**

No. R121, has a 5 inch brass cylinder, tapped for 2½ inch suction pipe. Price...(*Tetter*)..**35.00**

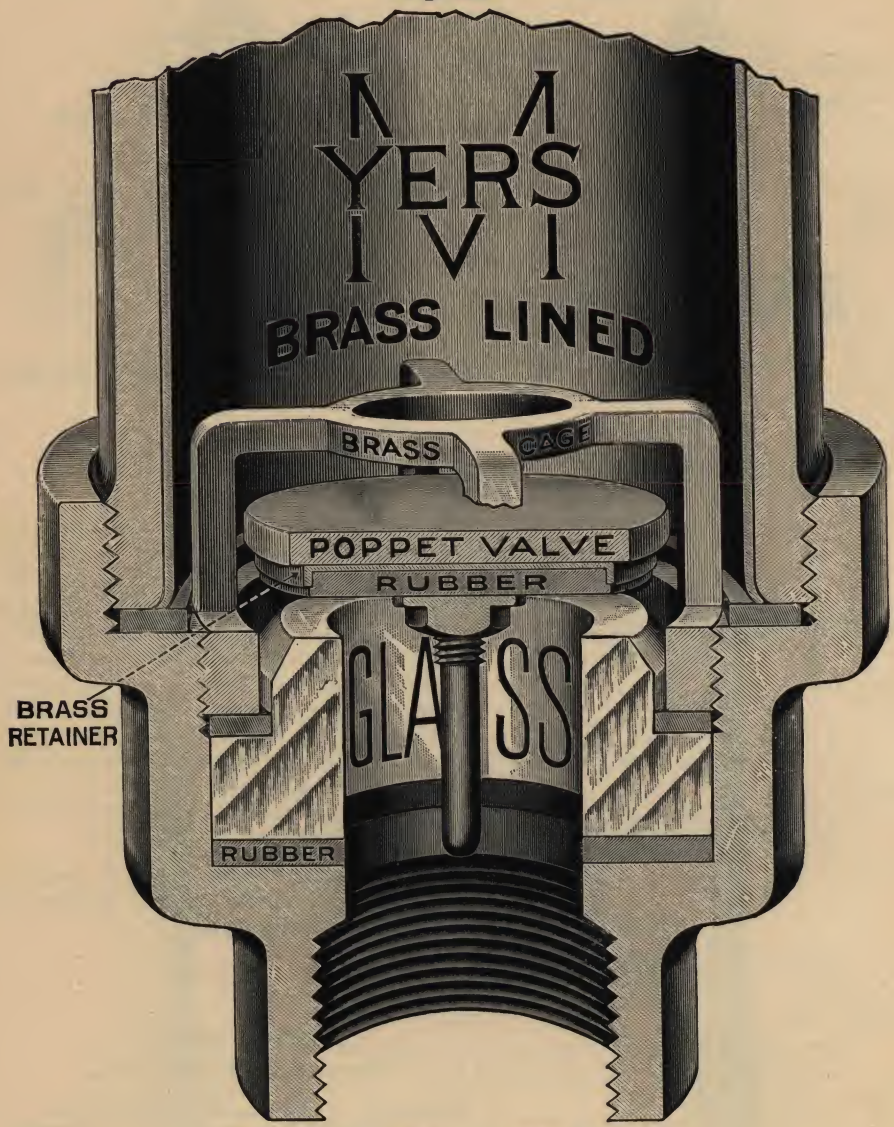
For windmill head on either of the above pumps, add to list.....(*Zebra*).. **1.25**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

MYERS DOUBLE ACTING FORCE PUMPS

FOR HAND OR WINDMILL POWER

4 Ft. Set Length Anti-Freezing

For Outdoor Use

For Shallow or Deep Wells.

The Submerged Cylinder series is designed for use in wells of small diameter, as drilled wells.

The Branch Pipe series is designed for wells of larger diameter.

The Cog Gear as used on double acting pumps is particularly advantageous, as it reduces the power required to operate the pump 40 per cent., which is a great advantage in pumping from deep wells, or in forcing water to an elevation, or through hose and nozzle for sprinkling purposes.

We recommend the Myers Double Acting Force Pump as the best of its kind on the market.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

Double Acting Force Pumps and Their Construction.

In the Myers Double Acting Pump the lower cylinder holds twice as much water as the upper; hence, when the plungers move upwards, both being on the same piston, one half of the water is passed into the upper cylinder and the other half discharged. This upward motion fills the cylinder below the lower bucket, also; when plungers move downward the water in the upper cylinder is discharged. In this downward motion the lower bucket simply passes through the water already in lower part of cylinder, on which it has no effect.

NOTICE.—The above motion and discharge in connection with air chamber cause a *continuous flow from spout.*

The construction of the Myers Double Acting Pump causes it to throw half on each stroke of the handle, thus utilizing both upward and downward stroke, and causing the pump to work easier and more satisfactory. In the double acting pump we do away with the objectionable stuffing box, which causes friction and leaking. In the double acting pump the plunger takes the place of the stuffing box, and instead of packing against a hard substance, we pack against water; hence the plunger is always lubricated and will wear longer. Again, the plunger being "cup shaped," the pressure causes it to expand and prevents leaking.

Air Chamber.

The entire stand is utilized as an air chamber. On the drilled well style the air chamber extends from the base to the spout, and on the branch pipe series it extends from the cylinder to the spout.

Myers pumps are constructed with *larger and heavier air chambers* than any other make of pump, and for this reason they throw a larger and more even stream. Other manufacturers use less air chamber, hence they have to reduce their discharge spout to get an even discharge, which idea is very objectionable to the user on account of the small stream.

It is an erroneous idea that an *air chamber* causes the "force" of a pump. This is not the case, as it only serves as a cushion to the stream, making it flow evenly. *Confining the water causes the force.* Any pump is a force pump in which you *confine the water* and drive it through a *small* opening. The air chamber is simply a receptacle containing air, into which the water is forced, compressing the air, for the purpose that when the handle is at a dead point, viz., at turning point, either at top or bottom of sweep of same, the air will naturally expand and cause the water contained therein to be discharged, thus causing a *continuous* flow; therefore, the *size of air chamber is an important feature.*

The Myers Submerged Cylinder Pump for Drilled or Cased Wells

For Shallow or Deep Wells.

We Control the Ground Patents on this Style of Pump and Will Prosecute All Infringers.

This pump is constructed for wells of small diameter, but can be used in any style well. Advantages are as follows: Stand is heavy cast iron and symmetrical in appearance; the entire inside is utilized as an air chamber, giving a *larger air chamber* than is used on any other make of force pump. The discharge pipe is suspended in air chamber and extends to within one inch of bottom (see sectional view, Fig. 330); this *discharge pipe being surrounded with air,* prevents freezing. The stem or set length is 1½ inch pipe, having but two joints, and more thread surface than two ¾ inch pipes, and has an unusually large waterway.

The upper or plunger cylinder is suspended in main cylinder with an annular waterway. This construction allows the water to pass up on *all sides* of plunger cylinder, and is a *direct flow from cylinder,* having no crooks or turns to cause friction. Notice the *connection is broken between cylinder and spout at the air chamber;* hence the water is pumped into air chamber, and *air forces it out of the spout.* By this means we get a perfectly even flow, no matter how rapidly you work the handle. Others do not use this construction, hence the stream *vibrates* at dead points of the lever.

The inner pipe screws into top of stand and into top of submerged cylinder, thus not *allowing the water to come into contact with piston rod.*

Fig. 330

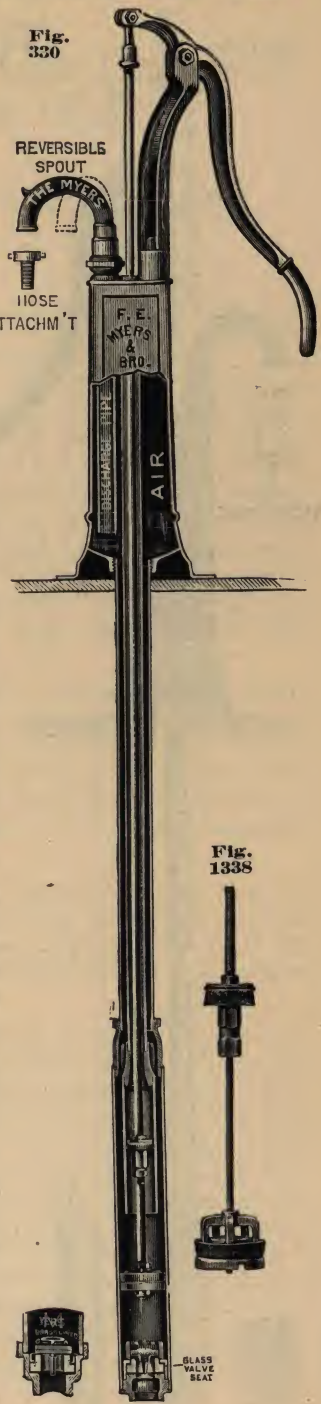


Fig. 1338

Fig. 334

The Myers Submerged Cylinder Double Acting Force Pump.

Windmill Head.

Fig. 334 illustrates the submerged cylinder drilled well pump as fitted with windmill head.

Fig. 397 is a good illustration of a drilled or cased well. The great growth and increasing demand for a well that would not fail, and was secure against surface and impure water, insects, and filth of any kind, has commanded the attention of well men until the drilled or cased well of from three to six inches in diameter has been developed and accepted as the most practical. It is absolutely clean, the casing extending from the base of the pump down to the rock or water strata.

We are pioneers, and were the first to introduce and manufacture a pump adapted for these wells, which is fully described in the following pages under the head of Submerged Cylinder Pumps. This construction of pump allows the casing to begin at the top of the ground.

Fig. 397

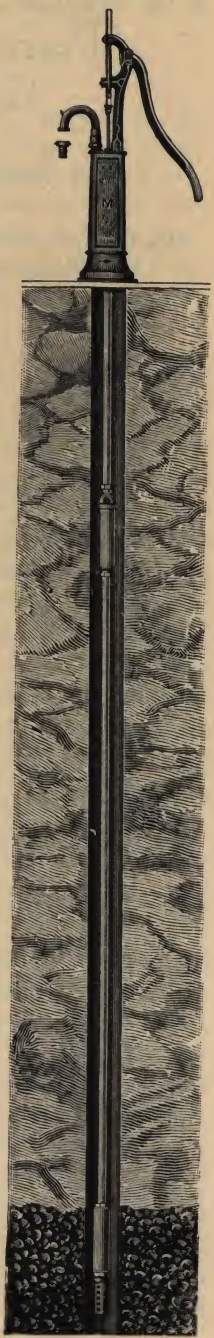
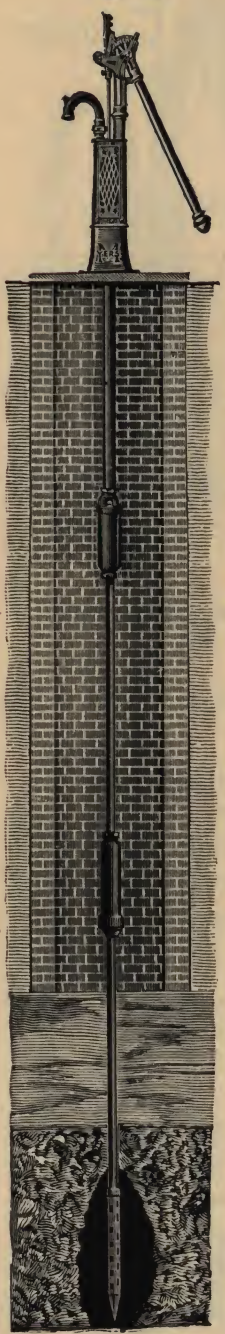


Fig. 1619



The Myers Cog Gear Deep Well Pump in Well.

Showing Drive Pipe in Bottom of Open Well.

The annexed illustration, Fig. 1619, shows how our Cog Gear Deep Well Pump is placed in the well. In placing the pump, we always recommend having the lower cylinder near the bottom of the well. The illustration further shows a dry, deep well with pipe and point driven down, a method that is practical where water can be reached by driving pipe and point a short distance. Where it is necessary to go to a great depth to reach water, instead of using drive pipe and point, we recommend that the well be drilled deeper and cased. If in rock, no casing is needed. The hole drilled should be large enough to allow the lower cylinder to be placed near the bottom of the drilled part of the well, same as illustration Fig. 397, showing a complete drilled well.

As a driven well pump we recommend the Myers Branch Pipe Pump, as the adjustable base allows the pump to be attached to pipe, no difference whether the top of drive pipe is four feet from the platform or not, as the base can be adjusted to suit the well. The spout and handle can be placed at any height and will accommodate itself to all surroundings.

The bolted cap is also a commendable feature in driven wells, as the pump can be removed by means of a common wrench without disturbing the suction pipe. It is the only pump that can be taken entirely apart with a common wrench.

The construction of the Myers Pump is very simple. We have a larger air chamber, and are able to get the best possible results, thereby securing a steady stream of water through the discharge pipe. It is very powerful. The hose coupling can easily be attached to the spout, and water forced to any part of a building or grounds. It is invaluable in case of fire, washing buggies, sprinkling lawns, watering flower beds, greenhouses, and for like purposes. It throws an even stream, and will force water 60 feet from the end of the nozzle. The entire pump is constructed of iron and brass, and is so firmly put together that it is impossible to injure it in any way by subjecting it to the most severe tests while forcing water under heavy pressure.

Fig. 331

Fig. 1338

The Myers Submerged Cylinder Double Acting Force Pump.

Anti-Freezing. For Shallow Wells.

The annexed cut, Fig. 331, is a good representation and an exterior view of our new Submerged Cylinder Set Length Force Pump.

It is a neat, substantial and attractive design, is ornamental, well finished, and will add beauty to any dooryard. For a complete description of the working parts see sectional view, Fig. 330. In ordering always designate the style of the pump you want by referring to the figure, and designate the size of the pump you want by giving the number.

PRICE LIST of New Submerged Cylinder Pump Represented by Fig. 331.

5 FOOT SET LENGTH.

With Brass Upper and Brass Lined Lower Cylinder.

FOR WELLS UNDER 25 FEET DEEP.

Will go in a 4 inch Cased Well.

Capacity, 440 gallons per hour.

No. 56, has a 3 inch brass lined cylinder with glass valve seat, tapped for 1¼ inch suction pipe.
Price .....(*Abaft*)..**$17.50**

Will go in a 5 inch Cased Well.

Capacity, 600 gallons per hour.

No. 58, has a 3½ inch brass lined cylinder with glass valve seat, tapped for 1½ inch suction pipe.
Price .....(*Aback*).. **20.00**

With Brass Upper and Brass Lower Cylinders.

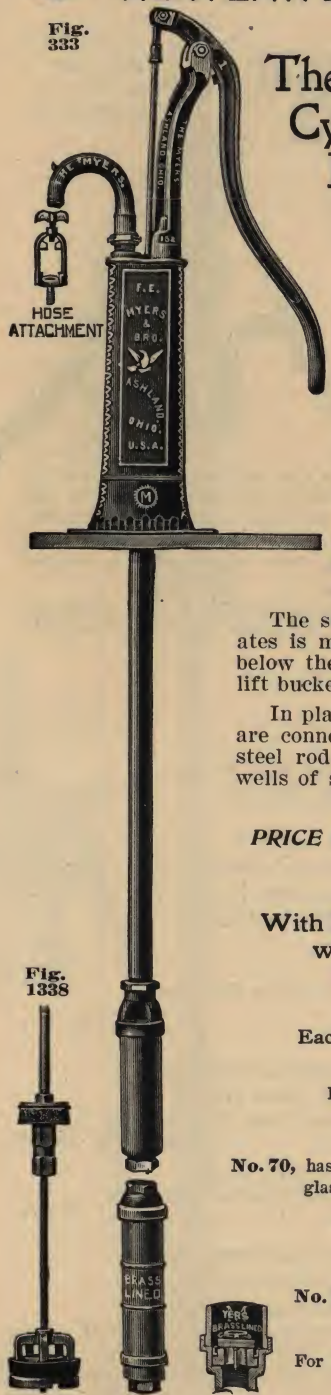
Will go in a 3½ inch Cased Well.

Capacity, 440 gallons per hour.

No. 57, has a 3 inch brass cylinder with glass valve seat, tapped for 1¼ inch suction pipe.
Price .....(*Abbot*)..**$18.50**

For windmill head on any of the above pumps, as shown in Fig. 334, add to the list.....(*Zebra*).. **1.25**

Fig. 333



The Myers Submerged Cylinder Deep Well Double Acting Force Pump.

Anti-Freezing.

Fig. 334
Windmill Head.
Add to list **$1.25**

Fig. 333 represents our Submerged Cylinder Deep Well Force Pump. It is identical in construction with the sectional view, Fig. 330, except that it is built with a divided cylinder. With or without wind engine head.

The submerged cylinder in which the plunger bucket operates is made of seamless drawn brass and is placed five feet below the base of the pump. The lower cylinder in which the lift bucket operates is brass lined, and has glass valve seat.

In placing this pump in wells the upper and lower cylinders are connected together with intermediate pipe, and a ⅜ inch steel rod inside operating the lift bucket. It is adapted for wells of small diameter, as the price list will plainly indicate.

PRICE LIST of New Submerged Cylinder Deep Well Pump, Represented by Fig. 333.

With Brass Upper and Brass Lined Lower Cylinders with Latest Improved Glass Valve Seat held with Brass Follower. Capped Outside.

Each Pump Fitted with Hose Attachment and Strainer.
Upper Cylinder 4½ Feet Below Platform.

FOR WELLS FROM 25 TO 150 FEET DEEP.
Will go in a 3¾ inch Cased Well.
Capacity, 306 gallons per hour.

No. 70, has a 2½ inch brass lined lower cylinder with latest improved glass valve seat, tapped for 1¼ inch pipe. Price...(*Able*)..**$18.50**

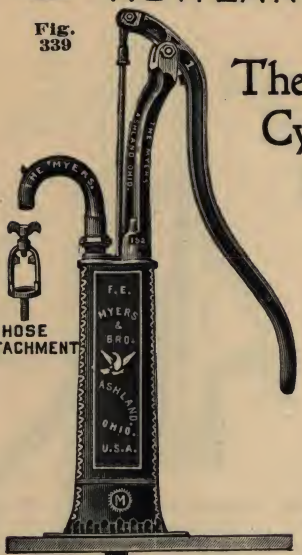
FOR WELLS FROM 25 TO 70 FEET DEEP.
Will go in a 4¼ inch Cased Well.
Capacity, 440 gallons per hour.

No. 72, has a 3 inch brass lined lower cylinder with latest improved glass valve seat, tapped for 1¼ inch pipe. Price .....(*Abject*)..**$18.50**

For windmill head on any of the above pumps, as shown in Fig. 334, add to the list.....(*Zebra*).. **1.25**

Fig. 1338

Fig. 339



The Myers Submerged Cylinder Deep Well Double Acting Force Pump.

Anti-Freezing.

Fig. 334
Windmill Head.
Add to list **$1.25**

In Fig. 339 the mode of operating and construction are substantially the same as in Fig. 330, except that it has upper and lower cylinders for deep well work; is fitted with our improved plunger, has *glass valve seat*, and is capped on the *inside*.

In ordering, always designate the style of the pump you want by referring to the figure, and the size by giving the number.

For full description see page 59.

PRICE LIST of Deep Well Pump, Represented by Fig. 339.

With Brass Upper and Lower Cylinders with Latest Improved Glass Valve Seat Held with Brass Followers, Capped Inside.

Upper Cylinder 4½ Feet Below Platform.

Fig. 1338

FOR WELLS FROM 25 TO 150 FEET DEEP.
Will go in a 3 inch Cased Well.

No. 69, has a 2¼ inch brass lower cylinder with brass plunger, tapped for 1¼ inch pipe. Price.....(*Ablied*)..**$20.00**

Capacity, 306 gallons per hour.

No. 71, has a 2½ inch brass lower cylinder with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Ably*)..**$20.00**

FOR WELLS FROM 25 TO 70 FEET DEEP.
Will go in a 3½ inch Cased Well.

Capacity, 440 gallons per hour.

No. 73, has a 3 inch brass lower cylinder with glass valve seat, tapped for 1¼ inch pipe. Price.....(*Aboard*)..**$20.00**

For windmill head, as shown in **Fig. 334**, add to the list .....(*Zebra*).. **1.25**

The Myers Cog Gear Submerged Cylinder Double Acting Force Pump.

PATENTED.

Fig. 1109

For Shallow or Deep Wells.

Has Patent Glass Valve Seat and Poppet Valve.

Anti-Freezing.

Fig. 1109 represents our Submerged Cylinder Drilled Well Pump, fitted with cog gear handle. The special feature of this style of handle is that it allows the piston to move in a direct line. Instead of an ordinary slide guard, we use a *roller bearing*, which reduces the friction to the minimum. This pump is especially adapted for deep well work.

The base of the pump is hollow, with a pipe running through the center for the pump rod to pass through, making the base an air tight chamber, which forms a part of the air chamber. The handle bearer is a wrought steel tube, forming a handle support and completing the air chamber. The upper cylinder is a seamless drawn brass tube enclosed in an iron shell.

PRICE LIST, Represented by Fig. 1109.

Brass Lined Lower Cylinder.

FOR WELLS FROM 10 TO 150 FEET DEEP.

Will go in a 3¾ inch Cased Well.
Capacity, 306 gallons per hour.

No. R184, has a 2½ inch brass lined lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1¼ inch pipe.
Price. . . . . (*Sandan*) . . **$18.50**

FOR WELLS FROM 10 TO 75 FEET DEEP.
Will go in a 4½ inch Cased Well.
Capacity, 440 gallons per hour.

No. R186, has a 3 inch brass lined lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1¼ inch pipe.
Price. . . . . (*Sandano*) . . **18.50**

FOR WELLS FROM 10 TO 60 FEET DEEP.
Will go in a 5 inch Cased Well.
Capacity, 600 gallons per hour.

No. R188, has a 3½ inch brass lined lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1½ inch pipe.
Price. . . . . (*Sandany*) . . **20.00**

Fig. 1338

Brass Lower Cylinder.

FOR WELLS FROM 10 TO 150 FEET DEEP.
Will go in a 3 inch Cased Well.
Capacity, 306 gallons per hour.

No. R185, has a 2½ inch brass lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1¼ inch pipe.
Price. . . . . (*Sandaz*) . . **$20.00**

FOR WELLS FROM 10 TO 75 FEET DEEP.
Will go in a 3½ inch Cased Well.
Capacity, 440 gallons per hour.

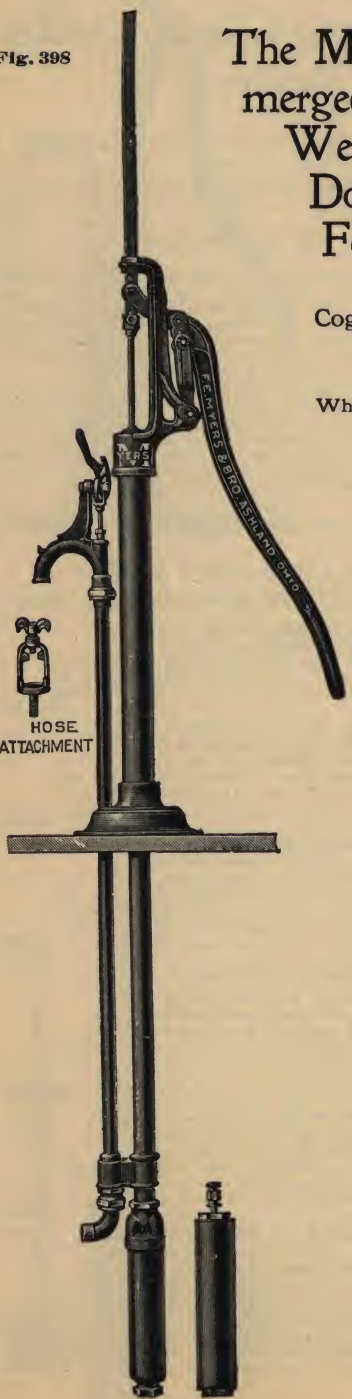
No. R187, has a 3 inch brass lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1¼ inch pipe.
Price. . . . . (*Sande*) . . **20.00**

FOR WELLS FROM 10 TO 60 FEET DEEP.
Will go in a 4 inch Cased Well.
Capacity, 600 gallons per hour.

No. R189, has a 3½ inch brass lower cylinder with latest improved glass valve seat. The brass upper cylinder is 4½ feet below the platform, tapped for 1½ inch pipe.
Price. . . . . (*Sander*) . . **21.50**

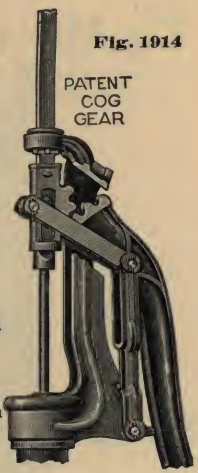
For any of the above pumps fitted with windmill head, add to list. . . . . (*Zebra*) . . **1.25**

Fig. 398



The Myers Heavy Submerged Cylinder Deep Well Windmill Double Acting Force Pump.

Fig. 1914



Cog Gear Head 7″ Stroke by Hand and 10″ for Windmill.

Wheeler Head has 6-8-10″ Stroke with Vertical Three-Way Cock.

Brass or Brass Lined Cylinders.

These Pumps also furnished with Cog Gear Head, Fig. 1914.

This pump is constructed to meet the requirements for an unusually strong pump for deep wells, and is adapted to stand the most severe tests to which wind engine and power pumps may be subjected.

It is built with wrought iron pipe standard; has the latest improved Rolling Motion Cog Gear and Wheeler wind engine head, with six, eight and ten inch stroke. The working parts are the same as shown in sectional view, Fig. 330, page 59, except cylinders are separated.

The submerged cylinder in which the plunger bucket operates is seamless drawn brass. For the lower cylinder in which the lift bucket operates, is furnished either seamless drawn brass or brass lined iron, as the numbers in the price list will indicate. All capped as specified, and fitted with our latest improved patent glass valve seat. Has our new vertical three-way cock, making the most complete drilled well pump in the market, combining the advantages of different length strokes adapted to wells of small diameter and great depth, and the three-way cock arrangement to allow the casing to come nearer the top of the ground.

Fig. 399

The Myers Heavy Submerged Cylinder Deep Well Double Acting Force Pump.

Anti-Freezing.

Cog Gear Head 7″ Stroke by Hand and 10″ for Windmill.
Wheeler Head Has 6, 8 and 10″ Inch Stroke.

Brass or Brass Lined Lower Cylinders.

Has the same construction as Fig. 398, except that it does not have the vertical three-way cock. It is a straight barreled pump, so constructed that it will go in wells of small diameter, as indicated in the price list.

Fig. 710 Plunger Furnished Regularly.

PRICE LIST.

Upper Cylinder 4½ Feet Below Platform.

Brass Body Lower Cylinder.

Will go in 3 inch and Larger Drilled Wells, from 25 to 200 Feet Deep.

No. 19, has 2¼ x 16 inch brass lower cylinder, capped inside with patent glass valve seat; has brass plunger; tapped for 1¼ inch pipe.
Price ..... (*Abraded*) .. **$22.50**

No. R19—Same as above, with Patent Cog Gear Handle.
Price ..... (*Thrum*) .. **22.50**

Capacity, 510 gallons per hour.

No. 20, has 2½ x 16 inch brass lower cylinder, capped inside with patent glass valve seat; has brass plunger; tapped for 1¼ in. pipe. Price. (*Abrade*) **$22.50**

No. R20—Same as above, with Patent Cog Gear Handle.
Price ..... (*Thrush*) .. **22.50**

Will go in 3½ inch and Larger Drilled Wells. Capacity, 730 gallons per hour.

No. 23, has 3 x 16 inch brass lower cylinder, capped inside, with patent glass valve seat; has brass plunger; tapped for 1¼ inch pipe.
Price. ..... (*Abroad*) .. **$22.50**

No. R23—Same as above, with Patent Cog Gear Handle.
Price ..... (*Thrust*) .. **22.50**

Will go in 4 inch and Larger Drilled Wells. Capacity, 1000 gallons per hour.

No. 25, has a 3½ x 16 inch brass lower cylinder, capped inside, with patent glass valve seat; has brass plunger; tapped for 1½ inch pipe.
Price. ..... (*Absence*) .. **$24.00**

No. R25—Same as above, with Patent Cog Gear Handle. Price. . (*Thud*) .. **24.00**

Brass Lined Lower Cylinder.

Will go in 3¾ inch and Larger Drilled Wells. Capacity, 510 gallons per hour.

No. 21, has 2½ x 12 inch brass lined lower cylinder, capped outside, with patent glass valve seat; tapped for 1¼ inch pipe.
Price. ..... (*Abray*) .. **$21.00**

No. R21—Same as above, with Patent Cog Gear Handle.
Price. ..... (*Thug*) .. **21.00**

Will go in 4½ inch and Larger Drilled Wells. Capacity, 730 gallons per hour.

No. 22, has 3 x 12 inch brass lined lower cylinder, capped outside with patent glass valve seat; tapped for 1¼ inch pipe.
Price. ..... (*Abridge*) .. **$21.00**

No. R22—Same as above, with Patent Cog Gear Handle.
Price. ..... (*Thumb*) .. **21.00**

Will go in 4¾ inch and Larger Drilled Wells. Capacity, 1000 gallons per hour.

No. 24, has a 3½ x 14 inch brass lined lower cylinder, capped outside, with patent glass valve seat; tapped for 1½ inch pipe. Price. ..... (*Abrupt*) .. **$22.50**

No. R24—Same as above, with Patent Cog Gear Handle.
Price. ..... (*Thump*) .. **22.50**

When fitted with three-way cock, as shown in Fig. 398, add to list ..... (*Zero*) .. **3.75**

Myers Exhibition Pump Rack.

For Displaying Pumps in a Dealer's Store.

Fig. 1628

Fig. 1629

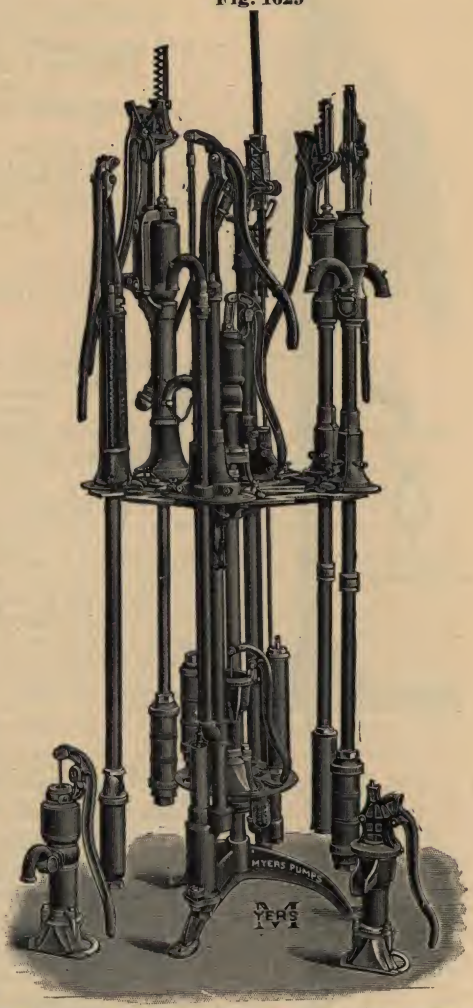


Fig. 1628 illustrates the Myers Pump Rack or Stand, which is well adapted for exhibiting pumps in a salesroom. It is built with a strong pedestal and fitted with a circular revolving top to which pumps can be attached, and enables the salesman to show or explain any particular pump without the necessity of going into the warehouse to dig out different stock. Any pump on the rack can be displayed without taking a single step, as the upper part of the rack revolves in either direction. The pumps are securely clamped to the revolving part. The rack is arranged not only for the exhibiting of eight large set length pumps, but also for house pumps, cylinders, etc.

Fig. 1629 shows the rack with pumps mounted in positon.

Our object in supplying this rack is to enable the dealer to exhibit his pumps to the best possible advantage. We are furnishing it at cost as an assistance to the dealer in the sale of Myers Pumps.

PRICE LIST, Represented by Fig. 1628.

Myers Exhibition Pump Rack..... *(Puffer)* ..**$15.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

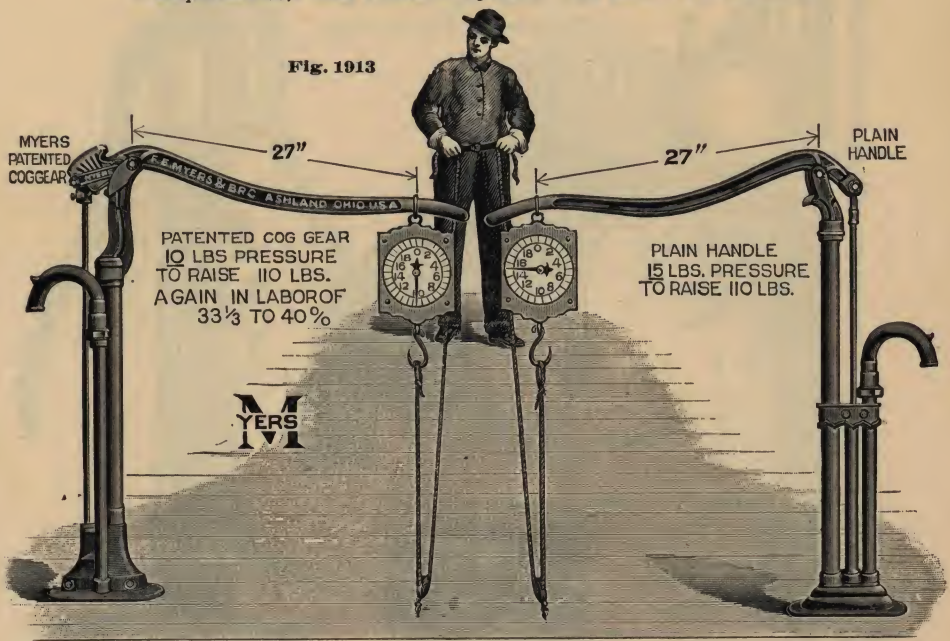
The Myers Patented Cog Gear.

As Applied to Double Acting Force Pumps.

The Best by Test.

It Requires 33⅓% Less Power to Operate. The Scales Tell the Story.

Fig. 1913



Sectional View of Cog Gear.

Fig. 1913 illustrates the advantages of the Myers Cog Gear Pump as compared with the ordinary style pump.

A glance at the scales shown in this test is certainly convincing. Note the scale on the plain handle pump indicates 15 lbs. pressure to raise 110 lbs., whereas the scale on the patented cog gear pump indicates 10 lbs. pressure to raise 110 lbs., **a saving in labor of 33⅓ to 40 per cent.**

You will note further that the scale is located the same distance from the fulcrum in each case. We have always made the claim that the cog gear was the correct idea owing to its easy working qualities. To prove our statement we have had photographs made of the scale test which is illustrated above.

Cog gear pumps are especially adapted for deep well work, owing to the above facts. There is no reason why they are not advantageous when used in shallower wells for the reason that they can be operated with a larger cylinder, thus securing more water with the same labor.

We originated the cog gear and own the only live patents on the application of the cog gear to a pump stand. The special feature of the Myers Cog Gear is that we use a *rolling motion cog*, which eliminates the friction as against the old style cog gear using a sliding friction cog, which is the difference between success and failure. This rolling friction point is the patented feature on the Myers Cog Gear Pump Handle.

Another advantage is that the piston rod is moved in a perpendicular line, thus reducing the friction of the windmill bar in passing through the stuffing nut and guide. No roller needed.

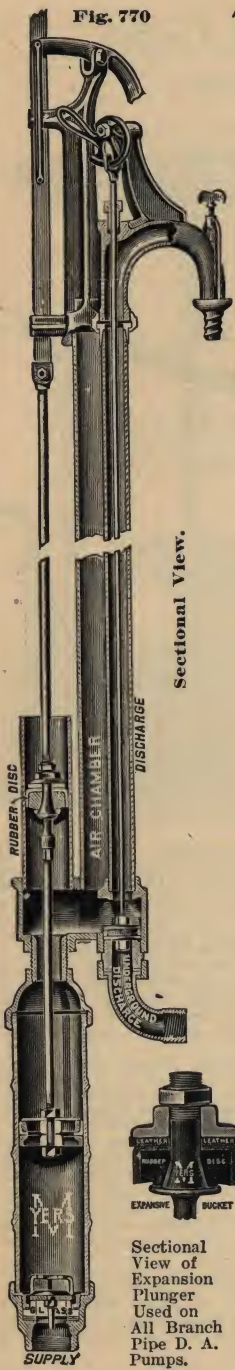
The Myers line of Cog Gear Pumps covers every variety of pump made by us from a House Pump to a Stand for very deep well work. Other manufacturers may be able to furnish a few styles of pumps fitted with the old style cog gear handle but no one else has a complete line, nor can they furnish the patented rolling motion cog gear as supplied on Myers Pumps.

The enlarged sectional view shows the patented rolling motion cog gear in detail.

The Myers Branch Pipe Double Acting Force Pump.

Showing Sectional Views of All Working Parts, Air Chambers, Valves, Etc.

Fig. 770



Sectional View.

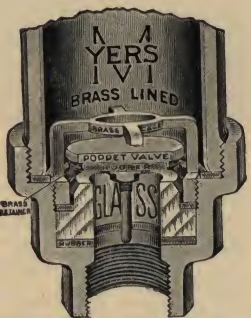
Sectional View of Expansion Plunger Used on All Branch Pipe D. A. Pumps.

Fig. 1918

PATENTED COG GEAR

Sectional View Cog Gear Head.

Fig. 577



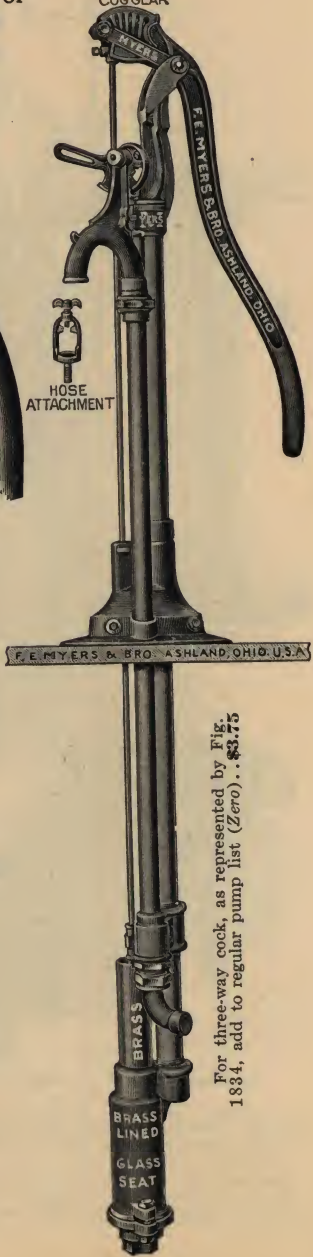
Sectional View Brass Lined Cylinder and Glass Valve Seat.

Fig. 1070

Sectional View of Three Way Used on all Myers Pumps.

Fig. 1834

PATENTED COG GEAR

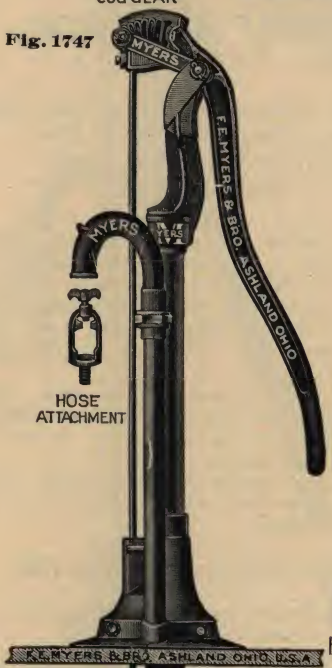


For three-way cock, as represented by Fig. 1834, add to regular pump list (*Zero*) . . $3.75

The Myers Cog Gear Branch Pipe Double Acting Force Pump.

PATENTED COG GEAR

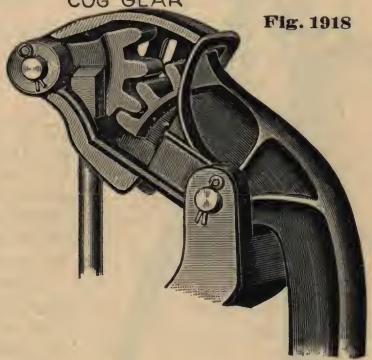
Fig. 1747



Anti-Freezing.

PATENTED COG GEAR

Fig. 1918



With Patent Adjustable Base and Union Spout. Four Foot Set Length. Brass Upper and Brass Lined Lower Cylinders.

Fig. 1747 represents our shallow well pump, which is made on the same plan as all our branch pipe pumps. It is fitted with our patent adjustable base, made in two parts, clamping the main stem by means of three bolts, and has Rolling Motion Patent Cog Gear Head. Especially recommended for use with hose.

PRICE LIST, Represented by Fig. 1747.

Each Pump Fitted with Hose Attachment and Strainer.

FOR WELLS UNDER 25 FEET DEEP.

These pumps are especially adapted for driven wells, on account of the bolt cap from which the cylinder can be removed without disturbing the drive pipe.

Fig. 1015

Capacity, 440 gallons per hour.

No. R1, Cog Gear Head, has a 3 inch brass lined cylinder, 4 feet below the platform, fitted with expansion plunger bucket and patent glass valve seat, tapped for 1¼ inch suction pipe. Price .....(*Teak*).. **$16.00**

Capacity, 600 gallons per hour.

No. R8, Cog Gear Head, has a 3½ inch brass lined cylinder, 4 feet below the platform, fitted with expansion plunger bucket and patent glass valve seat, tapped for 1½ inch suction pipe. Price .....(*Teal*).. **18.50**
For three-way cock, as represented by Fig. 1834, add to list.....(*Zero*).. **3.75**

Fig. 1766

The Myers Cog Gear Branch Pipe Double Acting Force Pump.

PATENTED.

Especially Adapted for Deep Well Use.
6 Inch Stroke for Hand Use.
8 Inch Stroke for Windmill.
Anti-Freezing.

Fig. 1766 represents the Myers Cog Gear Branch Pipe Pump, especially adapted for deep wells. The upper cylinder is seamless drawn brass, fitted with our expansion plunger bucket. The lower cylinder is brass lined iron, fitted with our latest improved patent glass valve seat.

The special advantage of the Cog Gear Handle is that it increases the leverage 33⅓% adapting the pump to deep wells or in forcing the water to an elevation.

The piston rod moves perpendicularly. Cog Gear has rolling motion, which reduces the friction to the minimum.

PRICE LIST, Represented by Fig. 1766.

Fitted With Patent Expansion Plunger and Glass Valve Seat.

Each Pump Furnished With Hose Attachment and Strainer.

FOR WELLS FROM 10 TO 150 FEET DEEP.
Will go in a 5⅝ inch Cased Well. Capacity, 306 gallons per hour.

No. R4, has a 2½ inch brass lined lower cylinder, with glass valve seat, tapped for 1¼ inch pipe.
Price .....(*Team*).. **$18.50**

FOR WELLS FROM 10 TO 70 FEET DEEP.
Will go in a 5⅝ inch Cased Well. Capacity 440 gallons per hour.

No. R5, has a 3 inch brass lined lower cylinder, with glass valve seat, tapped for 1¼ inch pipe
Price .....(*Tean*).. **$18.50**

FOR WELLS FROM 10 TO 50 FEET DEEP.
Will go in a 6½ inch Cased Well. Capacity, 600 gallons per hour.

No. R6, has a 3½ inch brass lined lower cylinder, with glass valve seat, tapped for 1½ inch pipe.
Price .....(*Teap*).. **$20.00**

FOR WELLS FROM 10 TO 30 FEET DEEP.

No. R7, has a 4 inch brass lined lower cylinder, with glass valve seat, tapped for 2 inch pipe.
Price .....(*Tear*).. **$22.50**
For windmill head, like Fig. 1758, add to list....(*Zebra*).. **1.25**
For three-way cock, like Fig. 1833, add to list....(*Zero*).. **3.75**
For windmill head and three-way cock, Fig. 1757, add to list .....(*Zion*).. **5.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Fig. 1831

The Myers Cog Gear Branch Pipe Double Acting Force Pump.

PATENTED.

Especially Adapted for Deep Well Use.
6 Inch Stroke for Hand Use.
8 Inch Stroke for Windmill.
Anti-Freezing.

Fig. 1831 represents the Myers Cog Gear Branch Pipe Pump, especially adapted for deep wells. The upper cylinder is seamless drawn brass, fitted with our expansion plunger bucket. The lower cylinder is brass lined iron, fitted with our latest improved patent glass valve seat.

The special advantage of the Cog Gear Handle is that it increases the leverage 33⅓% adapting the pump to deep wells or in forcing the water to an elevation.

The piston rod moves perpendicularly. Cog Gear has rolling motion, which reduces the friction to the minimum.

PRICE LIST, Represented by Fig. 1831.

Fitted With Patent Expansion Plunger and Glass Valve Seat.

Each Pump Furnished With Hose Attachment and Strainer.

FOR WELLS FROM 10 TO 150 FEET DEEP.

Will go in a 5⅝ inch Cased Well. Capacity, 306 gallons per hour.

No. R4½, has a 2½ inch brass lower cylinder, with glass valve seat, tapped for 1¼ inch pipe.
Price .....(*Terrene*).. **$20.00**

FOR WELLS FROM 10 TO 70 FEET DEEP.

Will go in a 5⅝ inch Cased Well. Capacity, 440 gallons per hour.

No. R5½, has a 3 inch brass lower cylinder, with glass valve seat, tapped for 1¼ inch pipe.
Price .....(*Terrier*).. **$20.00**

FOR WELLS FROM 10 TO 50 FEET DEEP.

Will go in a 6½ inch Cased Well. Capacity, 600 gallons per hour.

No. R6½, has a 3½ inch brass lower cylinder, with glass valve seat, tapped for 1½ inch pipe.
Price .....(*Terrify*).. **$21.50**

FOR WELLS FROM 10 TO 30 FEET DEEP.

No. R7½, has a 4 inch brass lower cylinder, with glass valve seat, tapped for 2 inch pipe.
Price .....(*Terrine*).. **$24.00**

For windmill head, like Fig. 1758, add to list....(*Zebra*).. **1.25**
For three-way cock, like Fig. 1833, add to list....(*Zero*).. **3.75**
For windmill head and three-way cock, Fig. 1757, add to list .....(*Zion*).. **5.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Branch Pipe Double Acting Force Pump.

Showing Different Forms of Construction.

Fig. 1833

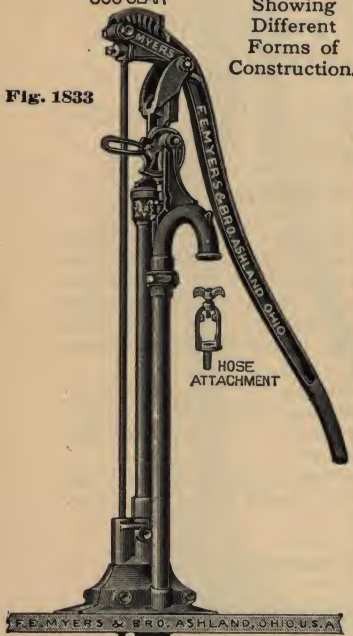


Fig. 1757

Fig. 1899

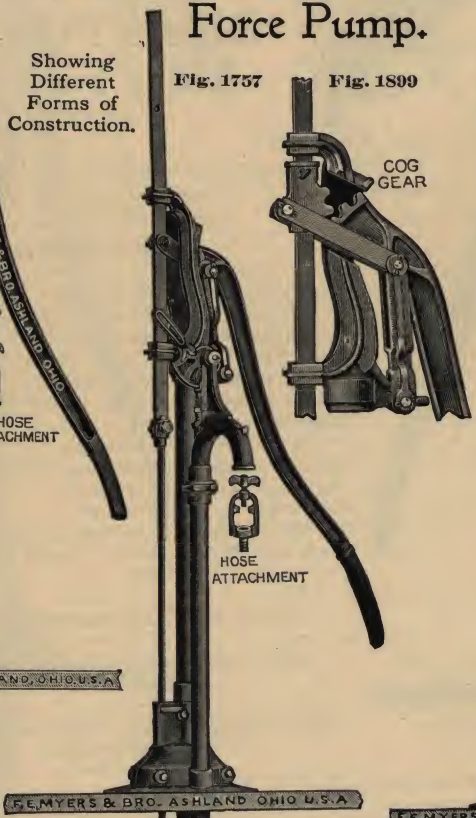


Fig. 1758

UPPER PLUNGER

For three-way cock as represented by Fig. 1833, add to list...(*Zero*)..**$3.75**

For windmill head and three-way cock, as represented by Fig. 1757, add to list..(*Zion*)..**$5.00**

For windmill head, as represented by Fig. 1758, add to list..(*Zebra*) **$1.25**

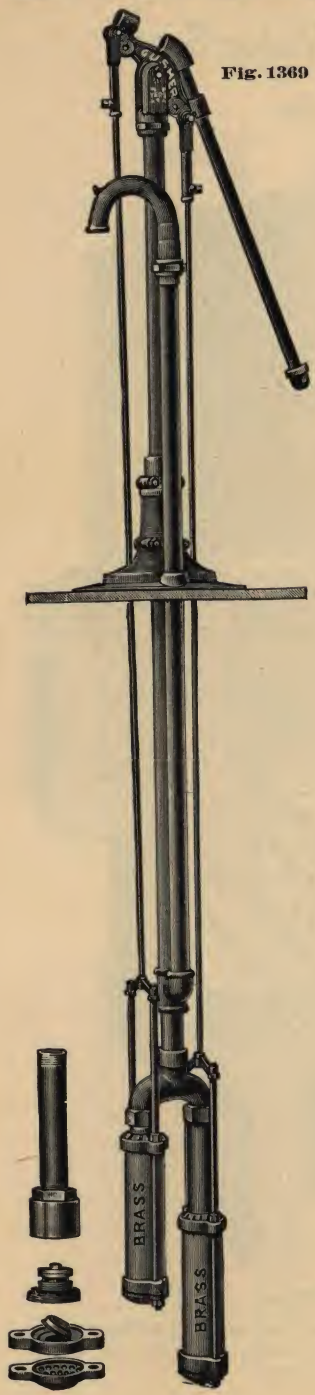


Fig. 1369

The Gusher Double Acting Force Pump.

Anti-Freezing.

Built Especially for Stock Wells.

With Adjustable Base.

The Gusher Double Cylinder Force Pump is so constructed that it sucks and discharges water on both strokes of the lever. The cylinders are attached to the handle on either side of the fulcrum, and by this means the pump rods balance themselves, thus greatly reducing the power required in pumping. The cylinders rise and fall alternately with the movement of the handle. By this construction we get a strictly double acting pump which discharges twice as much water as the ordinary pump.

The base is made in two parts, bolted together with four heavy steel bolts, which permits of it being adjusted to any point desired. In setting this pump the cylinders must be submerged in the water.

Fig. 1369 can be fitted with double handle by simply screwing a piece of ¾ inch gas pipe into place provided for same on each pump.

7/16 Inch Pump Rod.

PRICE LIST, Represented by Fig. 1369.

4 FOOT SET LENGTH.

No. 451, Gusher Double Cylinder Force Pump, fitted with two 3 inch seamless drawn brass cylinders. Price .....(*Rupe*)..**$20.00**

No. 452, Gusher Double Cylinder Force Pump, fitted with two 3½ inch seamless drawn brass cylinders. Price .....(*Rupel*).. **21.50**

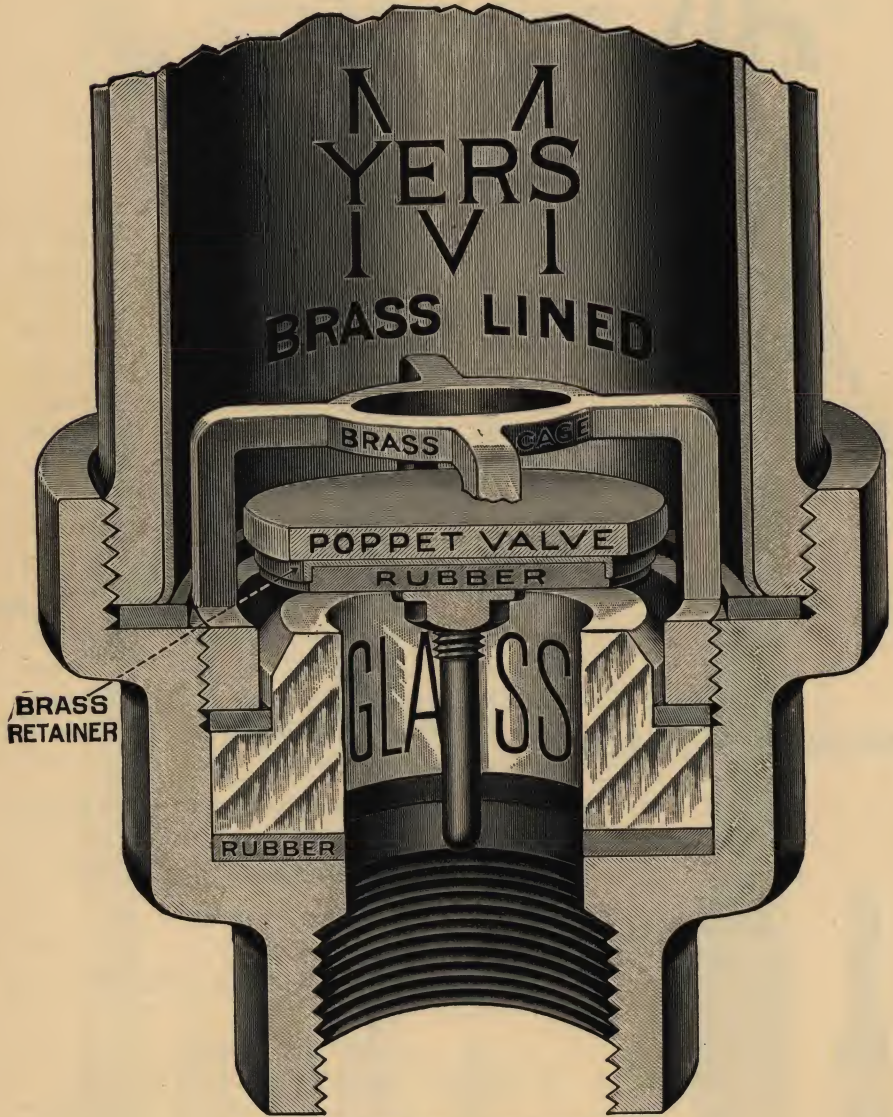
For 3-way cock, add to list.....(*Zero*)..**$3.75**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

MYERS

THREE-WAY PUMPS AND WINDMILL REGULATORS

WITH UNDERGROUND DISCHARGE

Anti-Freezing. For Use in Cold Climate Where Exposed Pipes are Affected by Frost.

The *Branch Pipe* Three-Way Pump is designed for light work.

The *Ashland* Three-Way is designed for heavier work and use in tubular wells, as the plunger can be withdrawn without dismantling the pump.

The *Imperial* Three-Way is designed for the deepest wells and extra heavy work.

The *Regulator* is designed not only to pump the water, but also to control the windmill, making it automatic in every respect. When the tank is filled the regulator pump pulls the mill out of the wind.

ELECTROTYPES FURNISHED FREE

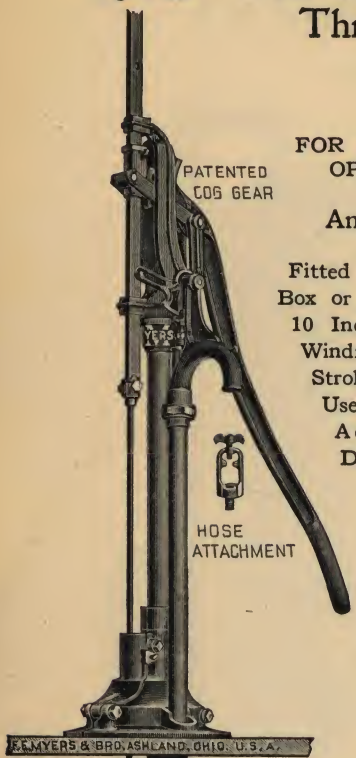
For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

Fig. 1763

The Myers Cog Gear Branch Pipe Three-Way Single Acting Force Pump

PATENTED

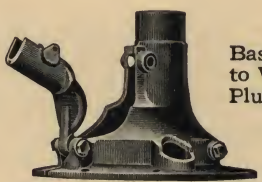


FOR TUBULAR OR OPEN WELLS

Anti-Freezing

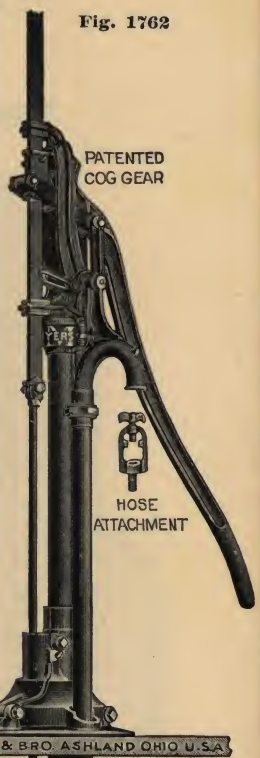
Fitted with Stuffing Box or Plunger Tube. 10 Inch Stroke for Windmill and 7 Inch Stroke for Hand Use. Especially Adapted for Deep Well Work.

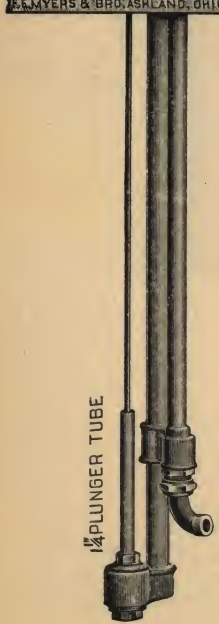
Fig. 1899



Base Opened to Withdraw Plunger.

Fig. 1762





Figs. 1762 and 1763 represent the Myers Branch Pipe Pump as fitted with cog gear handle for windmill and hand use. The advantage of this style head is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the ordinary handle. It does away with all friction guides, etc. Rolling Motion Cog Gear increases leverage 33⅓%. This special leverage adapts the pump to very deep wells. The pump is fitted with our regular three-way as is used on all Myers Underground Three-Way Pumps. Has large Brass Rod and Stuffing Box or 1¼ inch Plunger Tube as specified in list. It is furnished with flange. Bottom tapped for 1¼, 1½, 2 or 2½ inch pipe; state which is wanted. **Always fitted with 1¼ inch flange unless other size is specified.**

½ x ⅜ Rod Coupling—Regular

PRICE LIST

4 FOOT SET LENGTH

Fig. 1762 Fitted with Stuffing Box

No. R225, represented by Fig. 1762, *without* lower cylinder, tapped for 1¼ inch pipe.
Price ..... (*Rafar*) .. **$16.00**

No. R226, represented by Fig. 1762, *with* 2½ or 3 x 14 inch brass cylinder (state which).
Price ..... (*Raffect*) .. **23.50**

Fig. 1763 Fitted with 1¼ Inch Brass Plunger Tube

No. R227, represented by Fig. 1763, *without* lower cylinder, tapped for 1¼ inch pipe.
Price ..... (*Ralmost*) .. **$16.00**

No. R228, represented by Fig. 1763, *with* 2½ or 3 x 14 inch brass cylinder (state which).
Price ..... (*Ramort*) .. **23.50**

The Nos. R226 and R228 when furnished with Brass Lined Cylinder instead of Brass Cylinder, deduct from list $1.00.

Fig. 1761

The Myers Branch Pipe Single Acting Three-Way Force Pump.

With Stuffing Box or Plunger Tube.

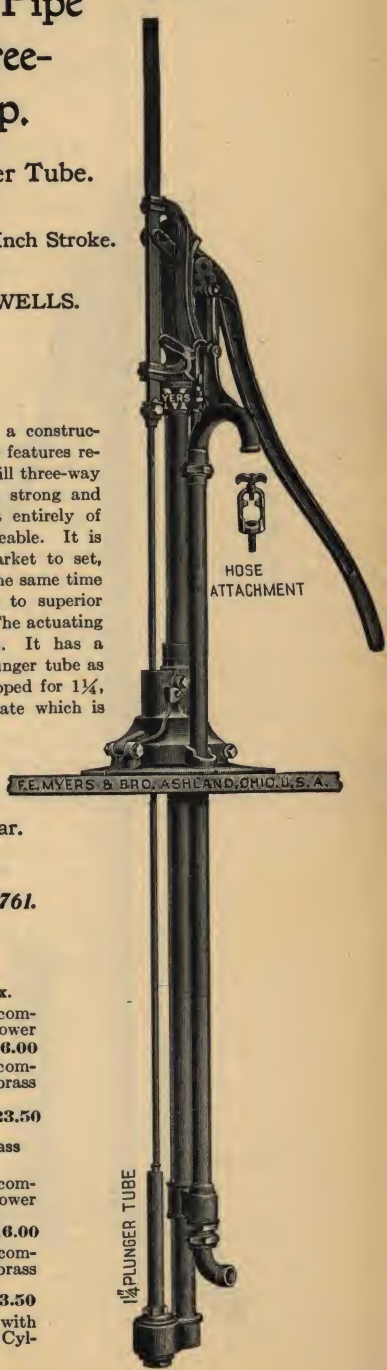
Wheeler Head, Six, Eight and Ten Inch Stroke.

FOR TUBULAR OR OPEN WELLS.

Anti-Freezing.

Figs. 1760 and 1761 embody a construction that combines all the features required in a reliable windmill three-way cock pump in a neat design, strong and compact. It is made almost entirely of wrought iron, steel and malleable. It is the easiest pump in the market to set, being light to handle and at the same time has greatest strength, owing to superior construction and material. The actuating rod is polished drawn brass. It has a large brass packing box or plunger tube as specified in list. Bottom tapped for 1¼, 1½, 2 or 2½ inch pipe; state which is wanted. **Always fitted for 1¼ inch pipe unless other size is specified.**

Fig. 1760



½ x ⅜ Rod Coupling—Regular.

PRICE LIST,
Represented by Figs. 1760 and 1761.

4 FOOT SET LENGTH.

Fig. 1761 Fitted with Stuffing Box.

No. 225, represented by Fig. 1761, complete as described, *without* lower cylinder. Price..(*Afar*). **$16.00**

No. 226, represented by Fig. 1761, complete *with* 2½ or 3 x 14 inch brass cylinder (state which).
Price .....(*Affect*).. **$23.50**

Fig. 1760 Fitted with 1¼ Inch Brass Plunger Tube.

No. 227, represented by Fig. 1760, complete as described *without* lower cylinder.
Price ..... (*Almost*).. **$16.00**

No. 228, represented by Fig. 1760, complete *with* 2½ or 3 x 14 inch brass cylinder (state which).
Price .....(*Amort*).. **$23.50**

The Nos. 226 and 228 when furnished with Brass Lined Cylinder instead of Brass Cylinder, deduct from list $1.00.

Fig. 1755

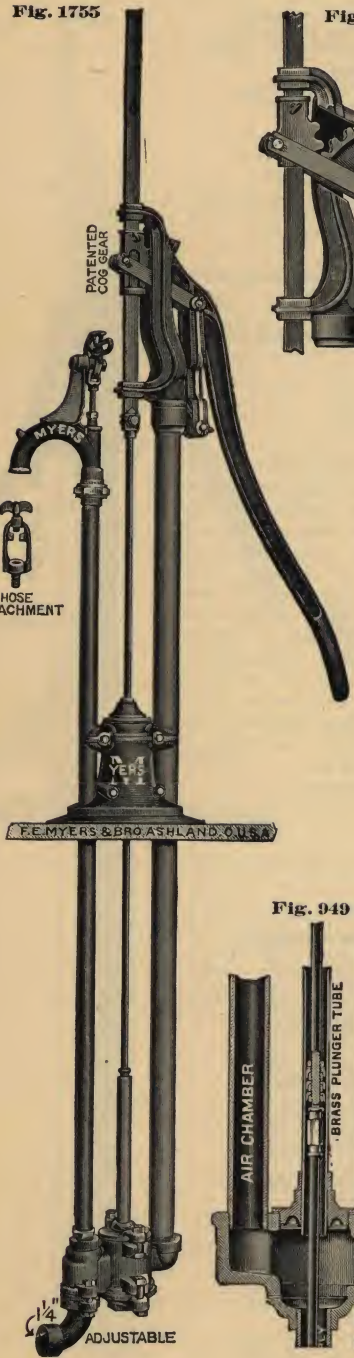


Fig. 1899

The Ashland Cog Gear Single Acting Three-Way Force Pump.

Anti-Freezing.

With Adjustable Base. For Tubular or Other Wells.

Ten Inch Stroke for Windmill and Seven Inch Stroke for Hand Use. Adapted to Deep Wells.

Fig. 1755 represents the Ashland Cog Gear Single Acting Force Pump with all parts held together by bolted flanges, and fitted with cog gear handle for windmill and hand use. The advantage of this style head is that it allows the piston to move in a direct line without swaying from side to side, as is necessary with the ordinary handle. It does away with all links, friction guides, etc. The rolling motion cog gear increases the leverage 33⅓%.

This special leverage adapts the pump to very deep wells. The pump is fitted with our regular three-way, as is used on all Myers Underground Three-way Pumps.

On tubular wells a plunger up to 3 inches can be withdrawn without removing pump. It is furnished with flange union at bottom, tapped for 1¼, 1½, 2, 2½ or 3 inch pipe; state which is wanted. *Always fitted with 1¼ flange unless other size is specified.*

½ x ⅜ Rod Coupling—Regular.

Fig. 949

RRICE LIST, Represented by Fig. 1755.

4 FOOT SET LENGTH.

With 1¼ inch Plunger Tube.

No. R230, complete as represented by Fig. 1755, with plunger tube, and *without* lower cylinder.
Price ..... (*Pithy*) .. **$17.50**

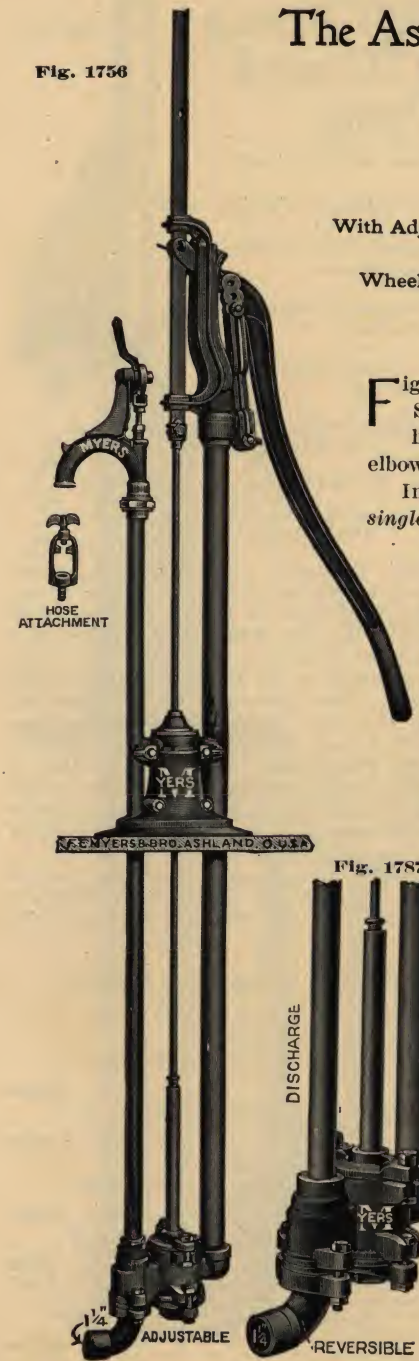
No. R232, complete as described, with plunger tube, and *with* 2½ or 3 x 14 inch brass lower cylinder.
Price ..... (*Pity*) .. **25.00**

Three-way discharge fitted for 1½ inch pipe when specified on order.

No. R232, when furnished with brass lined cylinder instead of brass, deduct from list **1.00**

The Ashland Single Acting Three-Way Force Pump.

Fig. 1756



Anti-Freezing.

With Adjustable Base. For Tubular or Other Wells.

Wheeler Head, Six, Eight and Ten Inch Stroke.

Fig. 1756 represents the Ashland Adjustable Stroke Wheeler Head Force Pump, all parts held together by bolted flanges. The three-way elbow swings in a complete circle.

In this pump we are enabled to offer the trade a *single acting underground three-way pump that covers the entire field, and enables the dealer to fill any order, and does away with the expense of carrying from three to five different styles of pumps in stock*—different sized flanges are all that are necessary.

On tubular wells a 3 inch plunger can be withdrawn without removing pump. It is furnished with flange union at bottom, tapped for 1¼, 1½, 2, 2½ or 3 inch pipe; state which is wanted. *Always fitted with 1¼ flange unless other size is specified.*

Fig. 1787

½ x ⅜ Rod Coupling—Regular.

PRICE LIST, Represented by Fig. 1756.

4 FOOT SET LENGTH.

With 1¼ inch Plunger Tube.

No. 230, complete as represented by Fig. 1756, with plunger tube, and *without* lower cylinder.
Price .....(*Adler*).. **$17.50**

No. 232, complete as described, with plunger tube, and *with* 2½ or 3 x 14 inch brass lower cylinder.
Price .....(*Amuss*).. **25.00**

Three-way discharge fitted for 1½ inch pipe when specified on order.

No. 232, when furnished with brass lined cylinder instead of brass, deduct from list **1.00**

Fig. 1943

Hercules Single Acting Three Way Windmill Force Pump.

With Cog Gear Head or Plain Handle.

For Tubular or Other Wells.

Flanged Head and Base Drilled and Bolted With Heavy Bolts.

3 Inch Plunger Can Be Withdrawn Through Base.

Piston Rod Enclosed and Thoroughly Protected.

Fig. 1944

Cog Gear Head.

Especially Adapted for Deep Well Use or With Pump Jack.

Plain Handle Pump 6, 8 and 10 Inch Stroke.

Cog Gear Head 7 Inch Stroke for Hand, 10 Inch Stroke for Windmill.

Fig. 1943 illustrates the Hercules Underground Discharge Windmill Force Pump, substantially built in every particular, with Plain Handle or Cog Gear Head. The main Pump Stand is fitted with a Flanged Head, machined and Bolted to the Base of the Pump and to the Pump Head proper. The Flanges are drilled so that the Head can be set on any quarter. A 2 inch Plunger can be withdrawn through the Pump Base. The lower section of the Pump is held together by Bolted Flanges. The three-way elbow swings in a complete circle and is tapped for 1¼ inch pipe. 1½ inch elbow furnished when specified.

The Pump is furnished with Flanged Union at bottom tapped for 1¼, 1½, 2, 2½ or 3 inch pipe. State which is wanted. Always fitted with 1¼ inch flange unless other size is specified.

PRICE LIST, Represented by Figs. 1943 and 1944.

4 Foot Set Length With 1¼ Inch Plunger Tube.

PLAIN HANDLE PUMP.

No. 239, Hercules Pump complete as described with plunger tube and *without* lower cylinder.
Price .....(*Tile*)..**$19.00**

No. 244, Hercules Pump complete as described with plunger tube and *with* 2½ or 3x14 inch brass lower cylinder.
Price .....(*Tiler*).. **26.50**

COG GEAR PUMP.

No. R239, Cog Gear Hercules Pump complete as described with plunger tube and *without* lower cylinder.
Price .....(*Till*)..**$19.00**

No. R244, Cog Gear Hercules Pump complete as described *with* plunger tube and with 2½ or 3x14 in. brass lower cylinder.
Price .....(*Tiller*).. **26.50**

If brass lined lower cylinder instead of brass, deduct from list.... **$1.00**

1½ inch elbow for three-way furnished when specified.

No. 430, Myers Faultless Pump Jack Only, fits any of the above Pumps, with machine cut gear, 14x2½ inch tight and loose pulleys. Price.....(*Teat*)..**$12.50**

Imperial Single Acting Windmill Force Pump.

Cog Gear and Plain Handle. For Tubular or Other Wells.

With 1¼ Inch Plunger Tube and One and One Quarter Inch Three-Way

Fig. 1764

Cog Gear Head Has 7 Inch Stroke For Hand and 10 Inch For Windmill

Plain Handle Pump Has 6, 8 and 10 Inch Stroke

Anti-Freezing

MYERS COG GEAR ROLLING FRICTION PATENTED

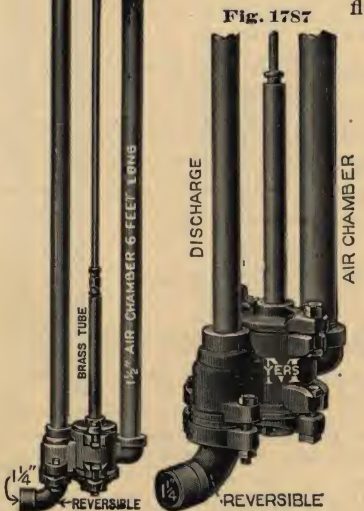
Sectional View of Cog Gear.

Fig. 1764 has large air chamber *extending to top of stand*, containing 127¼ cubic inches, being sufficient to cushion the stream under the heaviest pressure.

All parts held together by bolted flanges. The Three-Way Elbow swings in a complete circle.

It is furnished with flange union at bottom, tapped for 1¼, 1½, 2, 2½ or 3 inch pipe; state which is wanted. Always fitted with 1¼ inch flange unless other size is specified.

Fig. 1787



½ x ⅜ Rod Coupling — Regular.

PRICE LIST.

4 FOOT SET LENGTH.

With 1¼ Inch Plunger Tube.

PLAIN HANDLE PUMP.

No. 235A, complete as described with plunger tube and *without* lower cylinder. Price.....(*Ameer*)..**$20.00**

No. 236A, complete as described, with plunger tube and *with* 2½ or 3 x 14 inch brass lower cylinder. Price .....(*Ahmed*).. **27.50**

COG GEAR HEAD PUMP.

No. R235A, complete as described, with plunger tube and *without* lower cylinder. Price...(*Poling*)..**$20.00**

No. R236A, complete as described, with plunger tube and *with* 2½ or 3 x 14 inch brass lower cylinder. Price.....(*Polish*).. **27.50**

Nos. 236A and R236A, when fitted with brass lined cylinder instead of brass, deduct from list..... **1.00**

Three-way discharge fitted for 1½ inch pipe when specified on order.

The Myers Windmill Regulator Force Pump.

PATENTED.

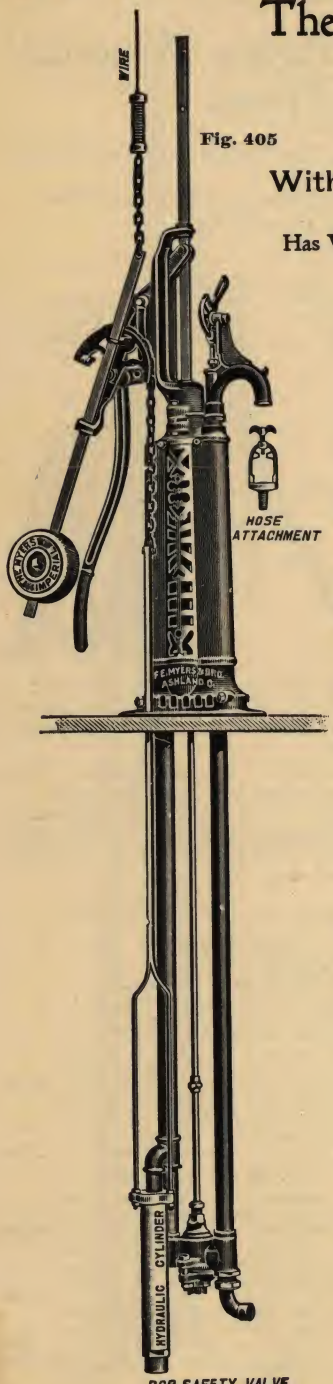


Fig. 405

With Stuffing Box. Anti-Freezing.

Has Vertical Three-Way, Wheeler Head, Six, Eight and Ten Inch Stroke.

This cut shows position of Weight and Hydraulic Cylinder when Wheel is in Operation.

The pump is of the most approved design throughout for windmill use. It is large, heavy and strong, designed especially for extremely hard work under heavy pressure; has an unusually large air chamber to cushion the stream and take off the heavy jar to which a windmill pump is subjected. All the parts in the three-way cock are malleable iron, drawn steel and brass. The hydraulic cylinder is seamless drawn brass. The pump is constructed so as to admit of the withdrawal of the plunger and valves when used on 2, 2½ or 3 inch tubular wells.

Is furnished with flange union at the bottom, tapped for 1¼, 1½, 2, 2½ or 3 inch pipe; state which is wanted. 1¼ inch flange will be shipped unless otherwise specified. This pump is tested under heavy hydraulic pressure after being set up.

½ x ⅜ Rod Coupling—Regular.

PRICE LIST, Represented by Figs. 405 and 406.

This Pump Fitted with 1¼ Inch Three-Way, as shown in Fig. 1787.

Three-Way Section Fitted with Bolted Flanges Throughout, not shown in cut — see Fig. 1787.

Three-Way Discharge Fitted for 1½ Inch Pipe when Specified on Order.

4 FOOT SET LENGTH.

Fig. 406, With Plunger Tube.

No. 242, complete as described, with plunger tube and *without* lower cylinder.
Price .....(*Anise*)..**$31.00**

No. 243, complete as described, with plunger tube and *with* 2½ or 3 x 14 inch brass lower cylinder.
Price .....(*Anita*).. **38.50**

No. 243, when fitted with brass lined lower cylinder instead of brass, deduct from list..... **1.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Windmill Regulator Force Pump.

PATENTED.

With 1¼ Inch Tube Cylinder. Anti-Freezing.

Fig. 406 shows Position of Weight and Hydraulic Cylinder when Wheel is held out of Gear.

Sectional View of the Working Parts of the Imperial Regulator Force Pump.

Fig. 530 is a sectional view of the working parts of the Myers Regulator Force Pump, showing plainly the large brass packing box used on the brass actuating rod, and also how the vertical three-way is constructed.

Operation.

When float valve in tank closes, the water is forced into the hydraulic cylinder through the plunger. This water striking the bottom of the cylinder forces it down, which action pulls the mill out of gear. The safety valve in bottom of cylinder is so arranged that in case of storm, when mill is out of gear and brake does not act, the mill continuing to revolve, the cylinder is forced farther down, opening the valve and allowing the surplus water only to escape, when spring closes the valve, thus holding the mill out of gear and not allowing it to whip back and forth. When water is drawn from tank so as to release the float valve, the mill goes into the wind again.

The flat steel bar to which chain is attached is to be adjusted to suit the stroke of mill; see position in Fig. 406. When mill is out of gear the steel bar should be in this position and the spring should be fully compressed. Adjust the weight to such distance from the pump that it will drop down when float valve opens.

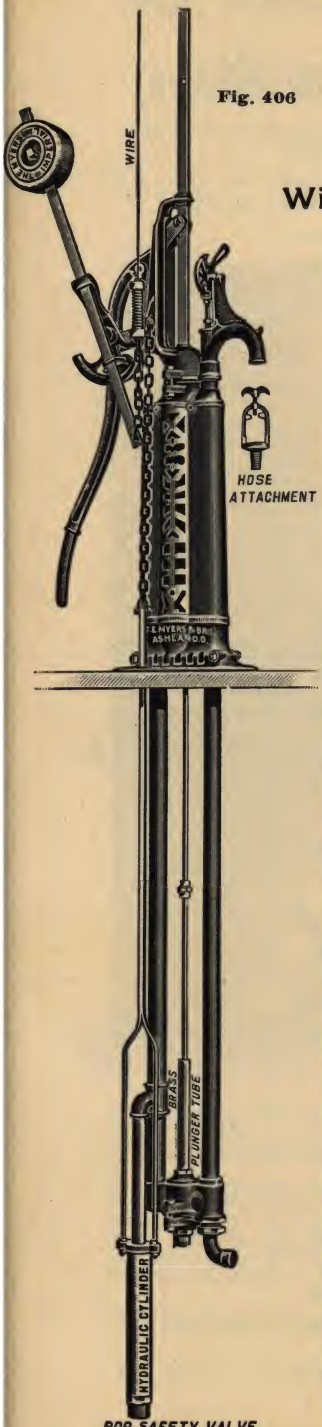


Fig. 406

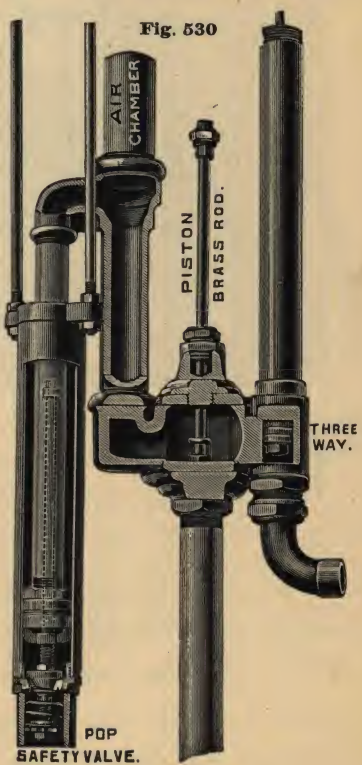


Fig. 530

Scene Illustrating the Utility of the Myers Regulator and Force Pump.

Fig. 404

This illustrates the wide range and capacity of the Myers Pump for house, garden and stock use, and presents a view that will, we hope, influence dealers and users to utilize our full line, not only for drawing water, but distributing it as the cut shows, thereby deriving the full capacity and benefit of our pumps, and establishing private waterworks.

In many places fire insurance companies have reduced the rate for insurance where our pumps have been placed in use. For these purposes our pumps are peculiarly well adapted, being very strong and reliable.

Myers Siphon Pump.

With Patent Glass or Brass Valve Seat.

Made with Two, Two and One Half, Three, and Three and One Half Inch Cylinders, Ten Inch Stroke. Extreme Movement of Plunger, 12 Inches.

1½ Inch Suction and Discharge.

Figs. 695 and 696 illustrate the Myers Siphon Pump, constructed so that all the working parts can be removed without disturbing the suction or discharge pipes, or disarranging the pump or connections in any manner. Has drawn brass cylinder, brass valve cap, glass valve seat, brass plunger and piston rod, large brass packing box, air chamber of large capacity, check valve in discharge opening. Outlet can be set at different angles, to suit the location.

Fig. 695

Fig. 696

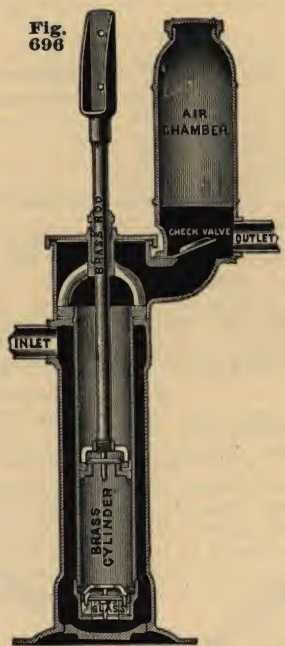
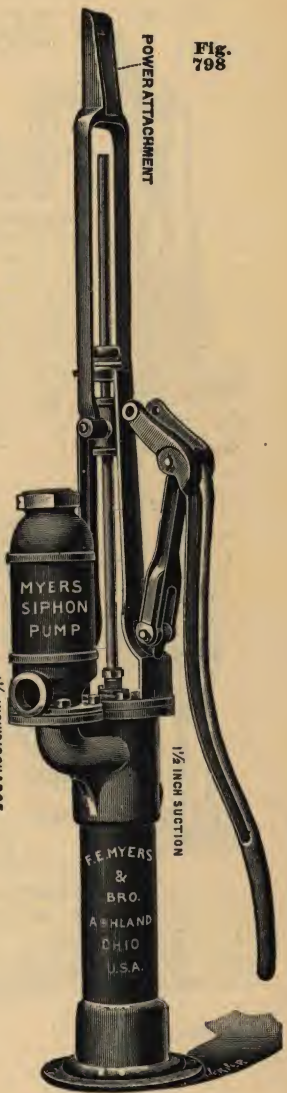


Fig. 798



PRICE LIST, Represented by Figs. 695 and 696.

Capacity, 300 gallons per hour.
No. 159, with 2 inch cylinder, tapped for 1½ inch pipe, brass seat only. Price .....(*Rear*).. **$20.00**

Capacity, 510 gallons per hour.
No. 160, with 2½ inch cylinder, tapped for 1½ inch pipe, suction and discharge. Price.(*Reach*).. **$20.00**

Capacity, 3 inch, 730 gallons per hour; 3½ inch, 1000 gallons per hour.
No. 161, with 3 inch cylinder, tapped for 1½ inch pipe, suction and discharge. Price..(*Real*).. **$21.00**
No. 162, with 3½ inch cylinder, tapped for 1½ inch pipe, suction and discharge. Price.(*Realm*).. **25.00**

Above capacity based on 40 strokes per minute—10 inch stroke.
With handle and power attachment, as shown in Fig. 798, add to list.....(*Realish*).. **$7.50**
With power attachment only, no handle and fulcrum, add to list.....(*Reader*).. **3.75**

Extra Heavy for Hard Service.

Power head not used on Nos. 163 and 164.
Sixteen Inch Stroke.

No. 163, with 3½ inch cylinder, tapped for 2 inch pipe. Price.....(*Rearing*)..**$44.00**

Fig. 879

Rod Connection. ¾" Pipe by ½" Rod Coupling.

Myers Deep Well Working Heads.

Fig. 880

16 AND 20 INCH STROKE.

Fig. 879 is fitted with 20 inch stroke, tapped for 4 inch pipe and can be bushed to any smaller size. Has large air chamber with 3 inch discharge. The base is separate and tapped for 4 inch pipe.

The stroke is adjustable to any length up to 20 inches. The piston rod is extra heavy with large brass packing nut; also renewable piston guide at the top of the yoke.

It is so constructed that by removing the yoke guide a 4 inch plunger can be withdrawn through the head without disconnecting the pipe.

PRICE LIST, Represented by Fig. 879.

No. 277, Myers Working Head, represented by Fig. 879.
Price .....(*Byard*)..**$22.50**
For brass covered piston rod, add..... **4.50**

PRICE LIST, Represented by Fig. 880.

10 INCH STROKE.

No. 280,	For 1¼	inch pipe.	Price .....(*Byron*)..	**$5.00**
No. 281,	For 1½	inch pipe.	Price .....(*Byrd*)..	**5.75**
No. 282,	For 2	inch pipe.	Price .....(*Bynd*)..	**6.25**
No. 283,	For 2½	inch pipe.	Price .....(*Byars*)..	**7.00**
No. 284,	For 3	inch pipe.	Price .....(*Byba*)..	**7.50**

½ in. by ⅜ in. Rod Coupling.

Fig. 387

California Working Head.

Fig. 387 has solid base tapped in bottom for 3 inch pipe, and bushed to any size as low as 1¼ inch. The discharge is tapped for 2 inch pipe. The head is fitted with brass piston rod.

PRICE LIST, Represented by Fig. 387.

16 INCH STROKE.

No. 275, Complete as shown, without cylinder, tapped for 1¼, 1½, 2 or 3 inch connecting pipe. State which. Price.....(*Burst*)..**$12.50**
When fitted for 20 inch stroke, add to list..... **2.50**

½ in. Pipe by ⅜ in. Rod Coupling.

Fig. 1028 has base 12 in. x 12 in. and is so constructed that a 4 inch plunger can be drawn through the head by removing the flange. The bottom of the head is tapped for 4 inch pipe. The discharge is tapped for 3 inch pipe. The guide rods are heavy drawn steel of sufficient length to permit of a 20 inch stroke. The piston rod is brass covered. Air chambers up to 2½ inch have screwed connections. Larger sizes have bolted flange like Fig. 1836.

Fig. 1836

Fig. 1028

PRICE LIST, Represented by Fig. 1028.

20 INCH STROKE.

No. 278, Complete as shown in Fig. 1028, tapped for 4 inch down pipe and 3 inch discharge. Price.....(*Buzoe*)..**$16.00**

No. 278, Can be furnished *with air chamber* as shown in Fig. 1836, add to list as follows:

½ inch Pipe by ⅜ inch Rod Coupling.

LINE PIPE AIR CHAMBER.

Air chamber for 1	inch pipe.	Price.....	**$2.50**
Air chamber for 1¼	inch pipe.	Price.....	**3.75**
Air chamber for 1½	inch pipe.	Price.....	**5.00**
Air chamber for 2	inch pipe.	Price.....	**6.25**
Air chamber for 2½	inch pipe.	Price.....	**7.50**
Air chamber for 3	inch pipe.	Price.....	**12.50**

MISCELLANEOUS PUMPS

TANK PUMPS

Very popular large capacity pumps at a reasonable price for lifting water into tank wagon for transportation; also for irrigation, pumping water out of cellars, ditches, contractors' use, etc.

LOW DOWN PUMPS

adapted to deliver water from shallow wells to an elevated tank.

MARINE AND MINE PUMPS

especially adapted as a safeguard on vessels. They meet the Government requirements as to capacity.

SIPHON PUMPS

for use in shallow wells. Adapted to force water into elevated tanks or pump it long distances. Operation, windmill or other power.

WORKING HEADS

for use in shallow or deep wells. Windmill or other power. Will pump water into elevated tanks or force it any reasonable distance.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

The Myers Cog Gear Giant Low Down General Purpose Double Acting Force Pump.

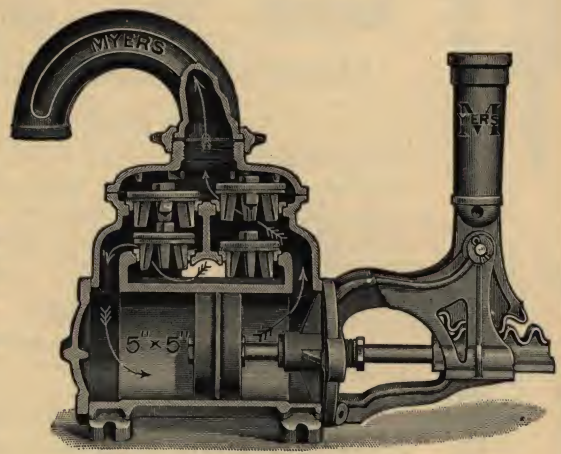
HAS BRASS VALVE SEATS AND METAL VALVES FACED WITH RUBBER.

5x5 inch Cylinder. Capacity 2,000 Gallons per Hour.

For Filling Thresher Tanks, Washing Out Boilers, Irrigation Purposes, Pumping Water from Trenches, Shallow Wells, Cellars, Barnyards, etc.

Compactness and Strength for Size and Weight; Large and Direct Waterways; Ample Valve Capacity; Easy Operation, Enable the Pump to Throw an Abundance of Water with the Least of Pumping Labor.

Cog Gear Head is Reversible. Can be Used on Either End of Pump.



All Through Bolts No Cap Screws.

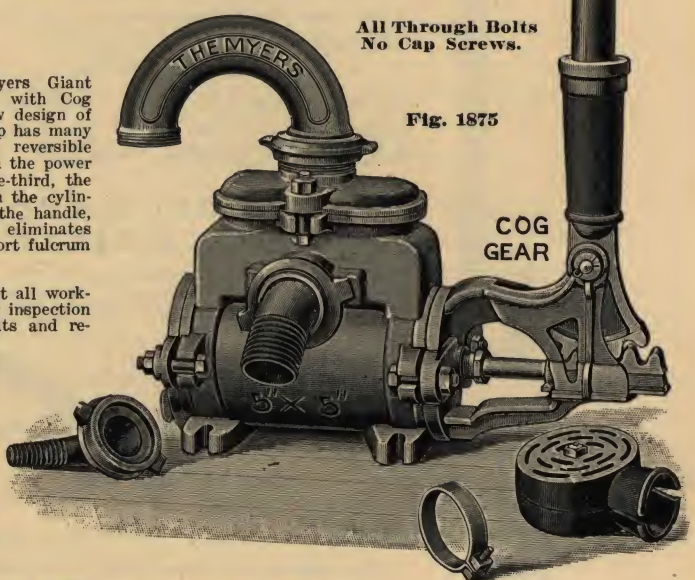


Fig. 1875

Fig. 1875 illustrates the Myers Giant Double Acting Force Pump with Cog Gear Handle, an entirely new design of low down construction. This pump has many desirable features, especially the reversible Cog Gear Head by means of which the power required to operate is reduced one-third, the piston moves in a direct line with the cylinder without carrying the weight of the handle, which reduces the friction and eliminates wear on rod and stuffing nut. Short fulcrum with a full 5 inch stroke.

This pump was designed so that all working parts can be easily reached for inspection or repairs. By loosening the bolts and removing cap all valves are exposed —which permits quick removal when necessary. A wrench is the only tool needed. It is fitted for 2 inch suction hose, and both suction and discharge are union nutted and tapped for 2 inch iron pipe. Drip cocks are provided for draining cylinder to prevent freezing. Spout is reversible.

The Breakable Parts are the same as used on all other Myers Tank Pumps.

PRICE LIST, Represented by Fig. 1875.

No. R479, Cog Gear Giant Low Down General Purpose Double Acting Force Pump, with hose nipple, hose band and strainer. Price.....(*Theft*).. **$12.50**

No. R479C, Cog Gear Giant Low Down General Purpose Double Acting Force Pump, complete as in No. R479, fitted with 20 feet of 2 inch spiral wire suction hose, 10 feet of 1 inch discharge hose and nozzle. Price.....(*Theism*).. **28.75**

Two inch spiral wire suction hose, 15, 20 and 25 foot lengths. Price per foot.....(*Breech*).. **.65**

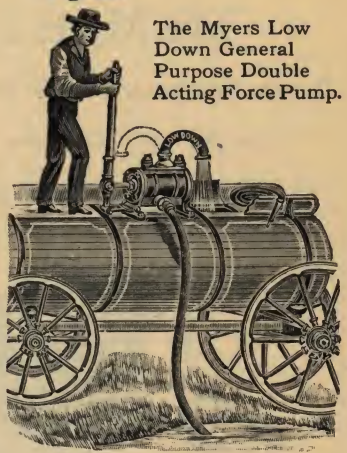
The Myers Low Down General Purpose Double Acting Force Pump.

With Plain Handle.

Large Capacity—2,000 Gallons per Hour.

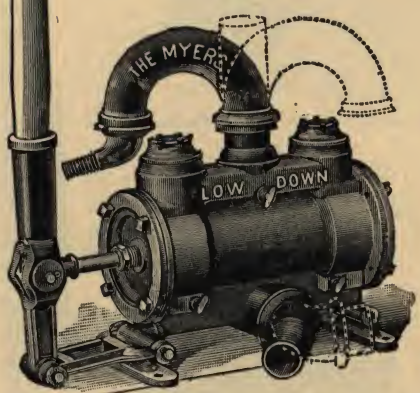
For Filling Thresher Tanks, Washing Out Boilers, Pumping Water from Shallow Wells, Cellars and Barnyards, Irrigation Purposes, Etc.

Fig. 609



The Myers Low Down General Purpose Double Acting Force Pump.

Fig. 513



Represents No. 268. Plain Handle.

The Name LOW DOWN a Registered Trade Mark.

Fitted for Hose and Two Inch Pipe.

Fig. 513 represents our Low Down Tank Force Pump.

The cylinder is 5 inches in diameter, bored on lathe and polished; has 5 inch stroke, with 2 inch openings for suction and discharge.

Fig. 1734

The valve seats are of *brass* and practically indestructible. The check valves are metal, faced with rubber.

The Piston Rod is made from 13/16 inch drawn polished steel, and has a heavy brass stuffing nut.

The Handle is reversible; can be placed on either end, making it a right or left hand pump.

The Suction and Discharge Ports are fitted for hose and threaded on the inside for 2 inch iron pipe.

PRICE LIST, Represented by Fig. 513.

No. 268, Low Down Tank Force Pump, hose nipple, hose attachment, hose band and strainer. Price ..... (*Bunk*) .. **$12.50**

No. 268C, Low Down Tank Force Pump, complete, fitted with 20 feet of 2 inch spiral wire suction hose, 10 feet of 1 inch discharge hose and nozzle. Price ..... (*Burket*) .. **28.75**

Two inch spiral wire suction hose, 15, 20 and 25 foot lengths. Price, per foot ..... (*Breech*) .. **.65**

For brass lined cylinder on any of above pumps, add to list ..... (*Pool*) .. **3.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

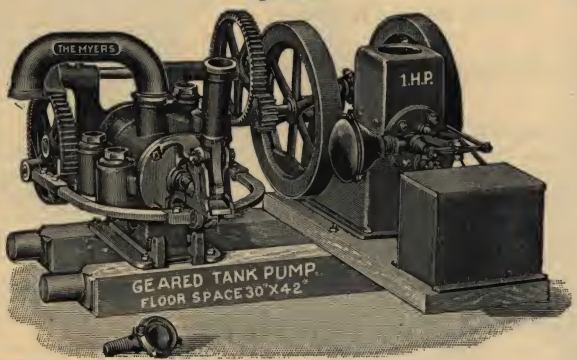
The Myers Back Geared Tank Pump.

To be Connected to 1 H. P. Gas Engine Either by Gear or Belt.

A Complete Outfit Occupying a Space of 30 x 42 inches; Has Machine Cut Gear.

Will Pump Against an Elevation of 25 Feet with Open 2 Inch Pipe.

Fig. 1487



To be Mounted on the Top of an Ordinary Water Tank.

Fig. 1485

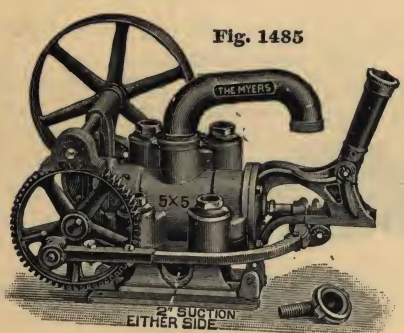


Fig. 1486

Fig. 1486 illustrates the Myers Back Geared Tank Pump arranged to be connected direct to a 1 H. P. gasoline engine, as shown in Fig. 1487. This pump is furnished complete as shown in the cut, including gear wheel and pinion, which is to be placed on the main crankshaft of the engine.

Fig. 1485 is the same pump fitted with a 2½ x 14 in. belt pulley, to be belt driven.

CONSTRUCTION.

The body of this Tank Pump is made extra heavy; valve seats are brass; the valves are metal, faced with rubber; each valve located under a separate cap and can be removed without disturbing any of the other parts.

The gears are all machine cut and mounted direct on the head of the pump.

The suction is 2 inches and can be attached to either side. Discharge 2 inches and must not be reduced. It is fitted with a wood handle and can be operated by hand by removing the pin that connects the steel sidearms to the piston.

PRICE LIST, Represented by Figs. 1485 and 1486.

No. 475, Geared Tank Pump as represented by Fig. 1485, with 2½ inch x 14 inch belt pulley, including strainer, discharge attachment and wood handle, list.....(*Pony*).. **$50.00**

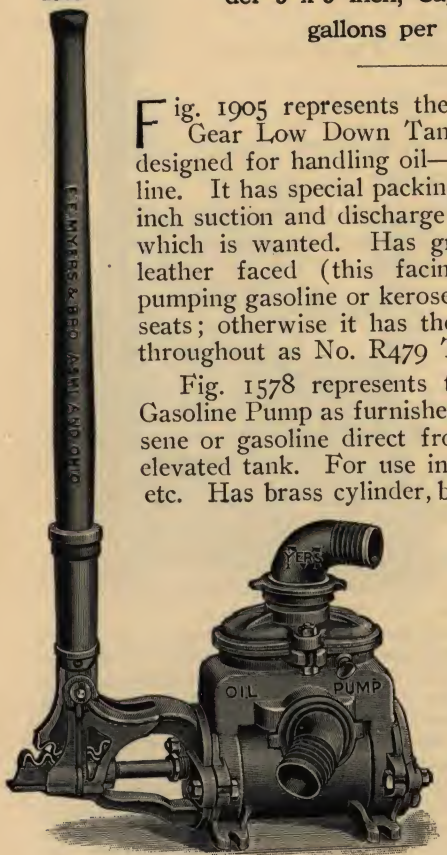
No. 475G, Geared Tank Pump with gear wheel and pinion for engine shaft instead of belt pulley, including strainer, discharge attachment and wood handle, list (*Pood*).. **52.50**

Either of the above pumps when fitted with brass lined cylinder, add to the list .....(*Pool*).. **3.00**

Myers Pumps for Handling Oil, Kerosene and Gasoline.

These pumps are especially packed for handling the above products; Cylinder 5 x 5 inch; Capacity 2,000 gallons per hour.

Fig. 1905



The Myers Oil and Gasoline Pump, Hemp Packed, for Warehouse and Garage Use.

Fig. 1578

Fig. 1905 represents the Myers Giant Cog Gear Low Down Tank Pump, especially designed for handling oil—kerosene and gasoline. It has special packing and is fitted for 2 inch suction and discharge *pipe or hose*—state which is wanted. Has ground brass valves, leather faced (this facing is removed for pumping gasoline or kerosene) and brass valve seats; otherwise it has the same construction throughout as No. R479 Tank Pump.

Fig. 1578 represents the Myers Oil and Gasoline Pump as furnished for pumping kerosene or gasoline direct from the barrel to an elevated tank. For use in warehouse, garage, etc. Has brass cylinder, brass seat and valve. The plunger is hemp packed. It is furnished with an attachment that screws into the bung hole of the barrel, inside of which the suction pipe is placed and held snugly in position by a large thumb screw. One inch hose can be attached direct to the pump, through which the liquid is forced to the tank or other receptacle.

PRICE LIST, Represented by Fig. 1905.

Fitted for 2 Inch Pipe or Hose—State Which is Wanted.

No. R469, The Myers Giant Cog Gear Tank Oil Pump, 5 x 5 inch cylinder, as shown in Fig. 1905.
Price each ..... (*Thresh*) .. **$17.00**
Brass Lined Cylinder, List Extra ..... (*Pool*) .. **3.00**

PRICE LIST, Represented by Fig. 1578.

No. 255, The Myers Oil and Gasoline Pump complete as shown in Fig. 1578.
Price each ..... (*Primy*) .. **$11.25**

The Myers New Model Cog Gear Force Pump.

Double Acting.

Patented.

Equipped with Brass Valve Seats, Rubber Faced Valves and Brass Piston Rod.

The Cog Gear Movement under the same pressure will operate with 33⅓% less power, or a 3-inch pump with the Cog Gear Movement can be operated with the same power required by a 2½-inch cylinder pump with an ordinary lever equipment.

Fig. 1909

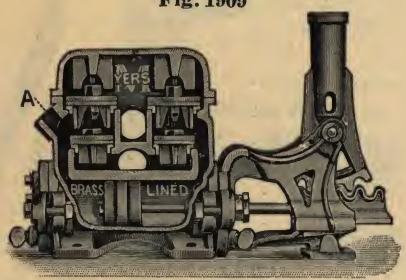
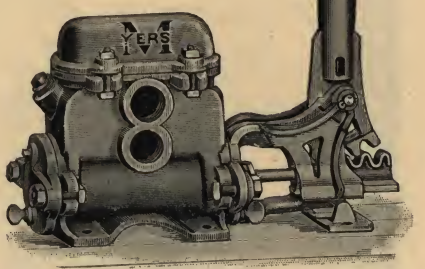


Fig. 1908



Figs. 1908 and 1909 illustrate the Myers New Model Cog Gear Force Pump, fitted with brass lined cylinder, brass valve seats and rubber faced valves. The suction valves are located immediately below the discharge valve. The suction valve is removed through the discharge valve opening. All four of the valves are reached by removing the air dome, which is located directly over them, and without disturbing either the suction or discharge pipe. The piston rod is brass covered with heavy brass stuffing nut. The pump, when necessary, can be primed by removing the plug at A, through which opening water can be poured direct into the cylinder. The cylinder heads and air dome are attached to the pump by means of through machine bolts, and can be entirely dismantled with an ordinary wrench. The suction and discharge pipes attach to either side of the pump. The cog gear handle reduces the power required to operate the pump 33⅓ per cent.

The pump is thoroughly well made in every respect, and is of such strength as to stand the rough usage to which this class of goods is generally subjected.

Note: Immediately underneath the cog gear handle bracket we use a wedge-shaped flange, which connects to a flange plate located on the floor, forming a complete support against any strain from pumping. This flange adjusts itself to the pump by sliding forward or backward.

PRICE LIST, Represented by Fig. 1908.

No. R288, Myers New Model Cog Gear Force Pump, as illustrated under Fig. 1908, 3 x 4½ inch brass lined cylinder, with 1¼ inch suction and discharge. Price.....(*Throng*)..**$12.50**

No. R289, Myers New Model Cog Gear Force Pump, Fig. 1908, 4 x 5 inch brass lined cylinder, with 2 inch suction and discharge. Price.....(*Throw*).. **18.00**

The Myers Double Acting Force Pump.

Fig. 1867

"HANDY BILLY"

BUILT IN ACCORDANCE WITH U. S. NAVY REQUIREMENTS.

Used on Ships, in Mines, Factories, Etc.

Three Sizes.

	Capacity. Cu. In.	Gallons. Per Stroke
4 x 5½	69.11	.30
5 x 5½	107.99	.463
6 x 5½	155.51	.673

Fig 1863

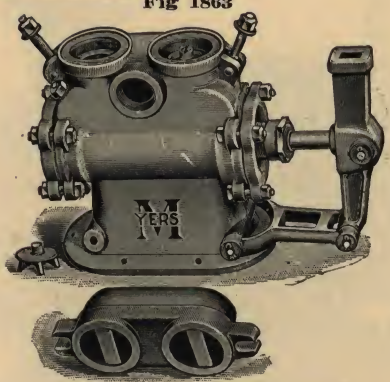
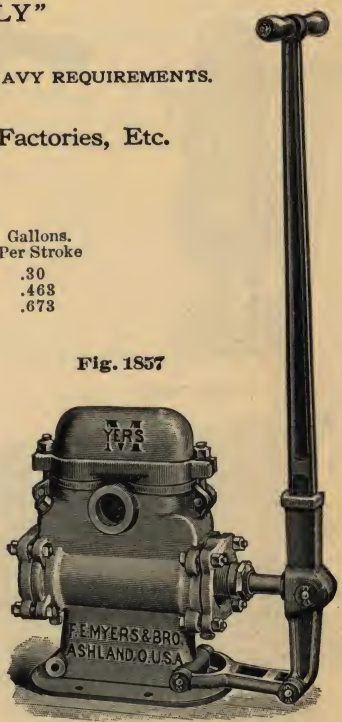


Fig. 1857



The above cuts illustrate The Myers Pump of the "Handy Billy" type designed for use on Ships, in Mines and Factories, or any place where a strong and ruggedly built pump is required. Has brass lined cylinder; 1⅛" brass covered piston rod, outside packed, with brass packing follower; valves and seats are brass, bevel ground; cylinder heads are flanged for packing and telescoping into cylinder body to insure alignment of all working parts. Has one packing joint to reach valves, which is recessed for circular packing gasket. Handle is malleable iron. The wood bar is of sufficient length to permit two men to operate the pump and of such size that it can be replaced with a 1¼ inch pipe. **Note:** The discharge line is taken from the body of the pump instead of the air chamber. All valves can be reached without disconnecting any of the piping or hose. All parts connected with heavy through bolts, can be entirely dismantled by use of an ordinary wrench. Provided with priming and drain plugs.

Fig. 1863 shows the air chamber removed, and also one of the valves.

Fig. 1867 shows an end view of the same pump.

PRICE LIST, Represented by Fig. 1857.

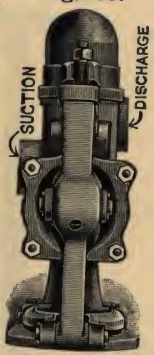
Single Lever Pump.

No. 476, 4" x 5½" Pump; suction 2", discharge 2" pipe. List.....(*Teuton*)..**$30.00**
No. 477, 5" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Texas*).. **40.00**
No. 478, 6" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Text*).. **50.00**

Brass Hose Nipples for suction and discharge add to above lists,—
No. 476,—**$2.00** No. 477,—**$4.35** No. 478,—**$4.35**

The Myers Double Acting Force Pump.

Fig. 1867



"Handy Billy"

Built in Accordance with U. S. Navy Requirements.

Used on Ships, in Mines, Factories, Etc.

Three Sizes.

	Capacity. Cu. In.	Gallons. Per Stroke
4 x 5½	69.11	.30
5 x 5½	107.99	.463
6 x 5½	155.51	.673

DOUBLE LEVER, SINGLE PISTON PUMP

Fig. 1858

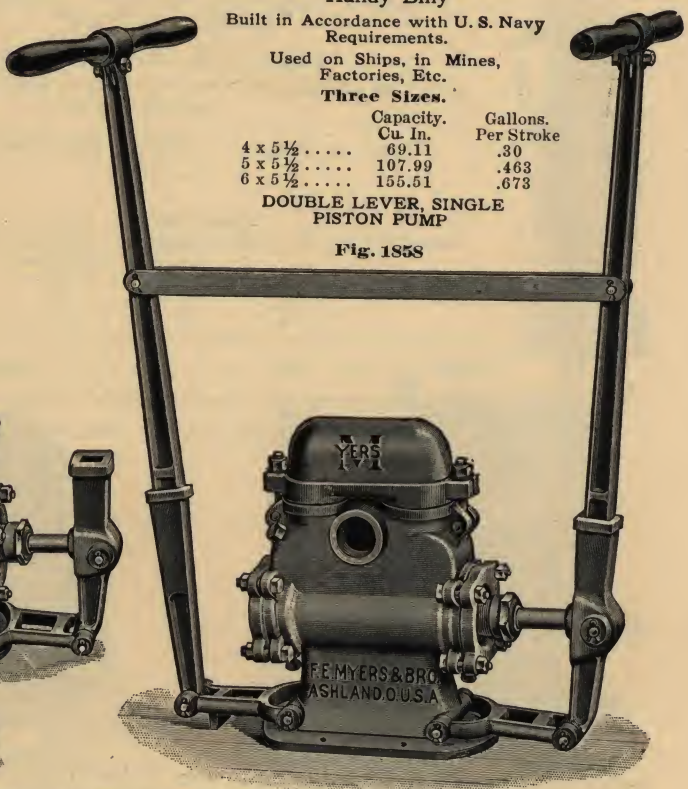
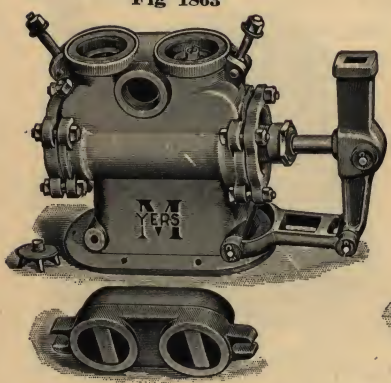


Fig 1863



The above cuts illustrate The Myers Pump of the "Handy Billy" type designed for use on Ships, in Mines and Factories, or any place where a strong and ruggedly built pump is required. Has brass lined cylinder; 1⅛" brass covered piston rod, outside packed, with brass packing follower; valves and seats are brass, bevel ground; cylinder heads are flanged for packing and telescoping into cylinder body to insure alignment of all working parts. Has one packing joint to reach valves, which is recessed for circular packing gasket. Handles are malleable iron with through clamping bolt to hold wood bar tight, no screws used. The wood bar is of sufficient length to permit four men to operate the pump and of such size that it can be replaced with a 1¼" pipe. **Note:** The discharge line is taken from the body of the pump instead of the air chamber. All valves can be reached without disconnecting any of the piping or hose. All parts connected with heavy through bolts, can be entirely dismantled by use of an ordinary wrench. Provided with priming and drain plugs.

Fig. 1863 shows the air chamber removed, and also one of the valves.

Fig. 1867 shows an end view of the same pump.

PRICE LIST, Represented by Fig. 1858.

No. 486, 4" x 5½" Pump; suction 2", discharge 2" pipe. List.....(*Textile*)..**$35.00**
No. 487, 5" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Texture*).. **44.00**
No. 488, 6" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Textus*).. **53.00**

Brass Hose Nipples for suction and discharge add to above lists,—

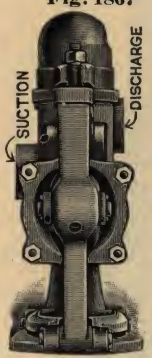
No. 486,—**$2.00** No. 487,—**$4.35** No. 488,—**$4.35**

The Myers Double Acting Force Pump.

"HANDY BILLY"

BUILT IN ACCORDANCE WITH U. S. NAVY REQUIREMENTS.

Fig. 1867



Used on Ships, in Mines, Factories, Etc.

Three Sizes.

	Capacity. Cu. In.	Gallons. Per Stroke
4 x 5½	69.11	.30
5 x 5½	107.99	.163
6 x 5½	155.51	.673

Double Lever, Double Piston Pump

Fig. 1859

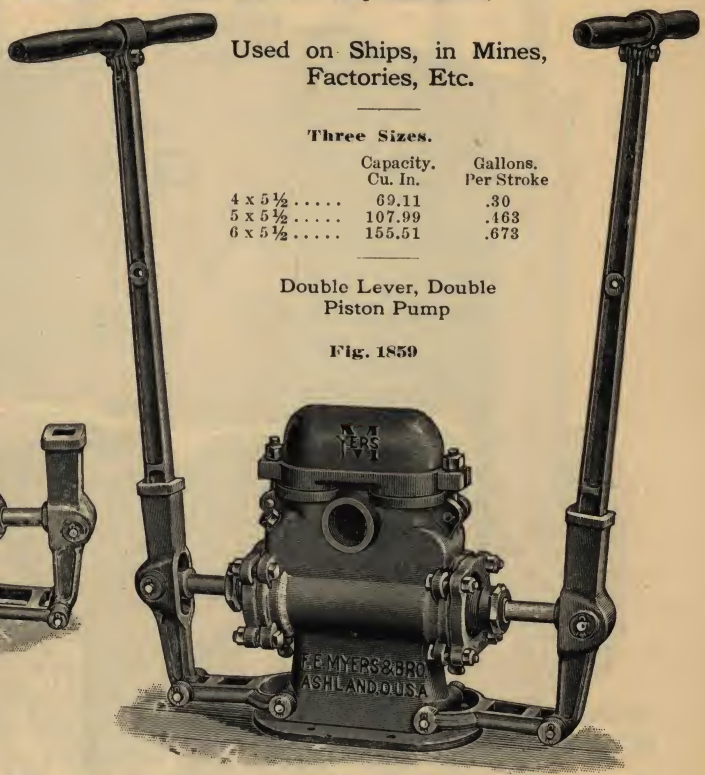
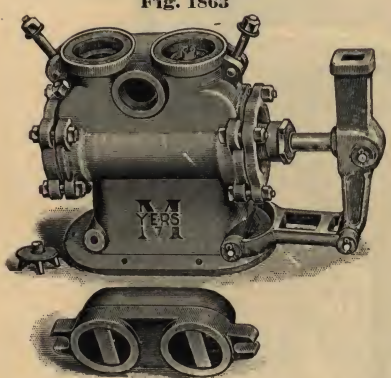


Fig. 1863



The above cuts illustrate The Myers Pump of the "Handy Billy" type designed for use on Ships, in Mines and Factories, or any place where a strong and ruggedly built pump is required. Has brass lined cylinder; 1⅛" brass covered piston rod, outside packed, with brass packing follower; valves and seats are brass, bevel ground; cylinder heads are flanged for packing and telescoping into cylinder body to insure alignment of all working parts. Has one packing joint to reach valves, which is recessed for circular packing gasket. Handles are malleable iron with through clamping bolt to hold wood bar tight, no screws used. The wood bar is of sufficient length to permit four men to operate the pump and of such size that it can be replaced with a 1¼" pipe. **Note:** The discharge line is taken from the body of the pump instead of the air chamber. All valves can be reached without disconnecting any of the piping or hose. All parts connected with heavy through bolts, can be entirely dismantled by use of an ordinary wrench. Provided with priming and drain plugs.

Fig. 1863 shows the air chamber removed, and also one of the valves.

Fig. 1867 shows an end view of the same pump.

PRICE LIST, Represented by Fig. 1859.

No. 496, 4" x 5½" Pump; suction 2", discharge 2" pipe. List.....(*Thaler*)..**$42.00**
No. 497, 5" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Thalis*).. **50.00**
No. 498, 6" x 5½" Pump; suction 2½", discharge 2½" pipe. List.....(*Thane*).. **60.00**

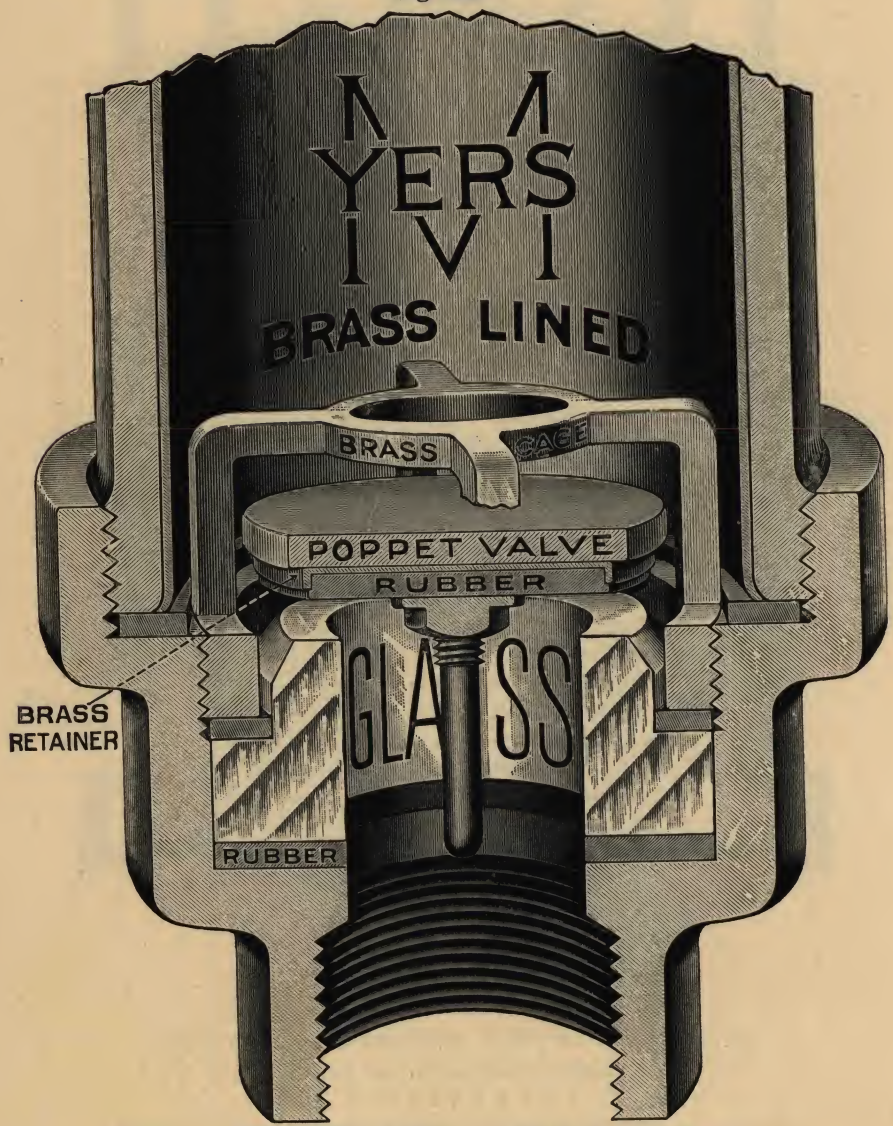
Brass Hose Nipples for suction and discharge add to above lists,—
No. 496,—**$2.00** No. 497,—**$4.35** No. 498,—**$4.35**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

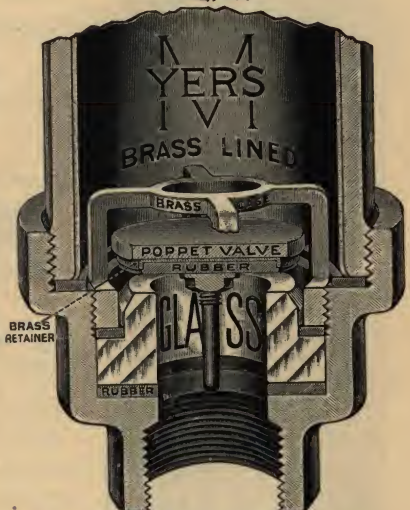
The Myers Improved Patent Ground Glass Valve Seat and Patent Drop Valve.

The Patent Glass Valve Seat and Poppet Valve are Used Only on Myers Pumps.

Fig. 883

Enlarged View, Illustrating Patent Glass Seat and Poppet Valve.

Fig. 577



Brass Lined Cylinder. Capped Outside.

We use the *Patent Glass Valve Seat* because *glass* is the only material that will not *corrode* or *rust* and accumulate a vitrous substance which *hardens the leather* and causes *the pump to lose priming*, as is the case with brass, iron or any other metal.

THE VALVE is of the poppet pattern, fitted with a specially prepared rubber face. This rubber is pure Para, enclosed in a *Brass Retainer* (see Fig. 577), which prevents the rubber from crushing when under heavy pressure as in deep wells.

The poppet valve is held in position by a heavy brass cage (see Fig. 883). This also holds the glass seat firmly in position. The action of the valve is always perpendicular, *rising clear* of the seat at each stroke, thus clearing itself of all foreign substances which is not the case with a hinge valve.

RUBBER vs. LEATHER in Check Valves. The advantage of the former is, that having more life it expels sand or gravel, whereas leather retains it and causes the pump to lose priming.

The Myers Perfect Valve and Brass Seat.

Fig. 1516

Fig. 1526

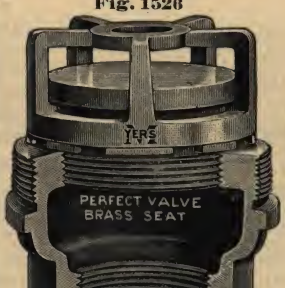
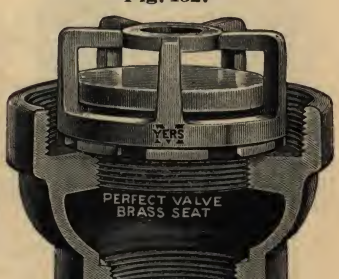
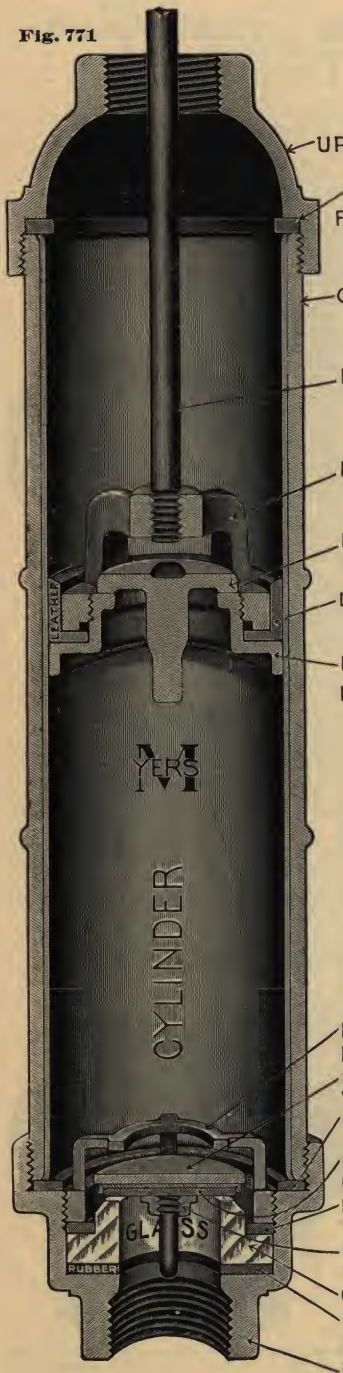


Fig. 1527



The above cuts illustrate the Myers Perfect Valve and Brass Seat, as furnished regularly in all **Brass Lined, Brass Body** and **Polished Iron** cylinders **listed** with brass seat. The seat is brass, thoroughly machined and threaded to screw into the cap on top of a leather gasket, which insures a water tight joint. The valve weight is brass recessed to receive the rubber disc facing. This recess prevents the rubber from being forced out of shape and is especially adapted to deep well work.

Fig. 771



Myers Cylinders.

With Patent Ground Glass Valve Seat and Patent Drop Valve.

One discount applies to all pump and cylinder lists, enabling you to arrive at net figures without further correspondence.

Sectional View of Myers Pump Cylinder.

It is well known by all practical pump men that the cylinder is the main and vital part of the pump. If it is defective the entire pump is condemned, regardless of beauty of design and finish of pump head.

It has been and will be our aim to construct the *Myers* Pump Cylinder with the greatest care and mechanical accuracy as to every detail.

The annexed cut illustrates the internal working parts of the *Myers* Brass Lined Cylinder. The body is cast iron, reamed before lining. The lining is a seamless drawn brass tube, which, after being placed within, is swedged out at the end to hold it in position, after which the iron and brass are both faced off on a lathe, which makes a perfect surface for the packing ring.

We consider the brass lined cylinder the most practical for general use, for the reason that the iron shell or body gives it the greatest possible strength, and the brass lining adds all the wearing qualities of a brass body cylinder, thus combining the strength and wearing qualities, which is very desirable.

The patent glass valve seat and rubber faced poppet valve are used only on Myers Pumps.

Fig. 1340

Plunger leathers are put up in cartons holding one dozen leathers, making a neat package which keeps the leathers in their original position. See Fig. 1340.

Plungers.

The plunger, next to the valve seat, is the most important part of the pump. If the plunger and valve seat are defective, no matter what care is taken in the construction of the balance of the pump, it will not operate satisfactorily.

Below we illustrate a full line of plungers as used in Myers Pumps.

SIMPLE, STRONG AND EFFICIENT

Fig. 710 (*Hark*)

Single Leather Plunger

Fig. 869 (*Hazer*)

Double Leather Plunger

Fig. 1338

Complete Plunger for Submerged Cylinder Double Acting Force Pump.

Fig. 1353

Complete Plunger for Branch Pipe Double Acting Force Pump.

Fig. 595

Upper Plunger for Branch Pipe Double Acting Force Pump.

LISTED ON NEXT PAGE.

IMPORTANT—All cylinders when fitted with Fig. 869 Double Leather Plunger—whether as extra cylinders or in connection with pump, will be charged extra, as compared with Fig. 710 Plunger, listed as regular.

All Myers Cylinders are fitted regularly with Fig. 710 Single Leather Plunger, or Fig. 869 Double Leather Plunger, as shown in list.

Plungers with brass cage and valve with iron follower furnished regularly on all brass and brass lined cylinders.

All Brass Plungers are special and carry a higher list.

All Iron Plungers furnished regularly with polished iron cylinders.

Cylinders with plungers different from above will be charged for extra, according to the difference in the list of the plunger.

PLUNGER CASTINGS have the largest possible openings to permit free flow of the water.

The **CAGE** has five supporting arms of sufficient weight to stand the strain of deep well work.

The **VALVE** is machined, with polished face; has good clearance, and cannot lodge or stick in cage.

The **FOLLOWER** is accurately machined, forming the valve seat.

The **LEATHERS** are best quality oak-tanned body leather, sized to an exact thickness and formed by our patented process without wetting. Guaranteed the best that can be produced.

The **STEMS** are hard drawn steel, galvanized and polished; fitted with malleable iron coupling.

Price List of Plungers Complete.

When Furnished as Extras.

PLUNGERS, ALL IRON, WITH STEEL STEM AND MALLEABLE COUPLING.

Diameter, inches	1¾	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6
Single Leather, Fig. 710, F. Plunger	.....	.....	$ .65	$ .65	$ .80	$ .80	$1.15	$1.15	$1.50	$2.00	$2.50	$3.65
Two Leathers, Fig. 869, F. Plunger	.....	.....	1.00	1.00	1.30	1.30	1.90	1.90	2.50	3.20	4.15	6.05

PLUNGERS, BRASS CAGE AND VALVE, IRON FOLLOWER, WITH STEEL STEM AND MALLEABLE COUPLING.

Single Leather, Fig. 710, F. Plunger	.....	.....	$1.75	$1.75	$2.00	$2.00	$3.50	$3.50	$4.75	$6.50	$ 9.25	$12.75
Two Leathers, Fig. 869, F. Plunger	.....	.....	2.00	2.00	2.50	2.50	4.25	4.25	5.75	7.75	11.25	15.25

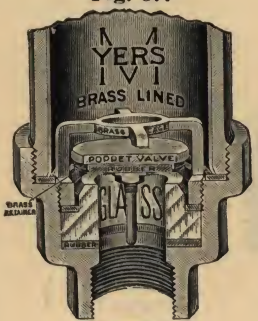
PLUNGERS ALL BRASS, WITH STEEL STEM AND MALLEABLE COUPLING.

Single Leather, Fig. 710, F. Plunger	$1.80	$1.80	$2.30	$2.30	$2.95	$2.95	$4.40	$4.40	$6.40	$9.50	$12.25	$15.75
Two Leathers, Fig. 869, F. Plunger	2.40	2.40	3.15	3.15	4.55	4.55	6.20	6.20	9.00	13.25	18.50	26.25

PLUNGERS FOR DOUBLE ACTING PUMPS.
Complete Plungers Have Brass Cage and Valve.

Size, inches	2¼	2½	3	3½	4
Fig. 1338 or 1353, complete Plunger for Double Acting Pump		$2.40	$2.80	$4.40	$5.75
Fig. 595, Upper Plunger for Double Acting Pump	.65	.65	.75	.90	1.00

Fig. 577



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THE VALVE is of the poppet pattern, fitted with a specially prepared rubber face. This rubber is pure Para, protected by a brass retainer, which prevents the rubber from crushing when under heavy pressure as in deep wells.

Fig. 710

Fig. 710 Plunger.
Single Leather.
Enlarged View.

Cross Section View of Upper Plunger as used on all Branch Pipe Double Acting Force Pumps.

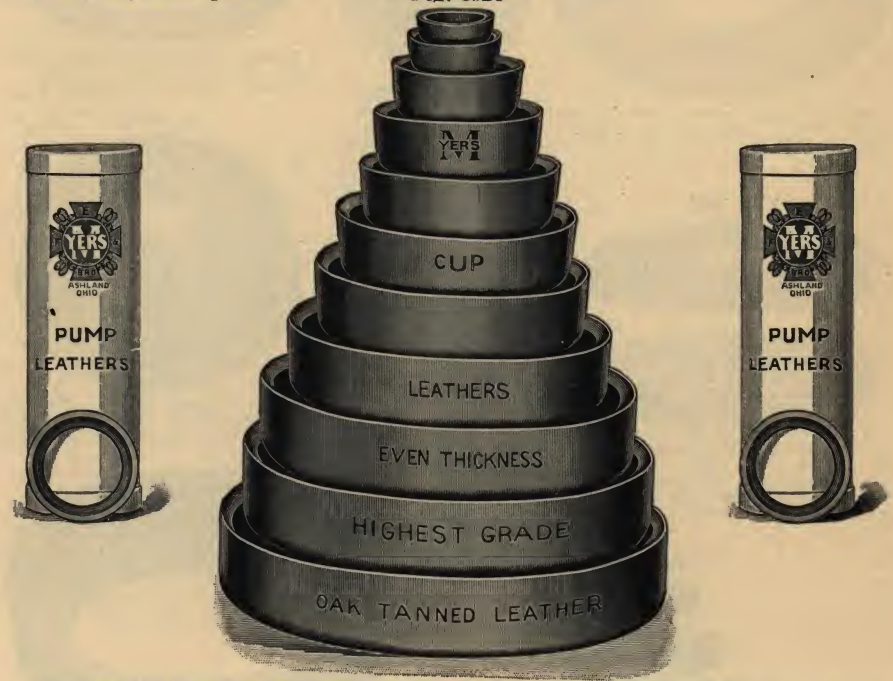
Fig. 869

Fig. 869 Plunger.
Double Leather.
Enlarged View.

Myers Pump Leathers.

We use only the very best oak tanned body leather, sized to an even thickness throughout and crimped perfectly by our patent process *without being wet.* This always insures pliable buckets and a plunger that will outwear those made by any other process.

Fig. 1924



Leathers for Repairs are Dipped in a preparation of Paraffine, which causes them to hold their original shape in rough handling.

Fig. 1925

Plunger leathers are put up in cartons holding one dozen leathers, making a neat package which keeps the leathers in their original position. See cuts on this page.

Fig. 1920

Rubber Gasket under Glass Valve Seat. State diameter of Lower Cylinder.

Fig. 1919

Expansion Rubber Disc. State diameter of Lower Cylinder. Used on Branch Pipe D. A. Pumps.

Fig. 1923

Leather Gasket above Glass Valve Seat. Give diameter of Cylinder.
Leather Gasket for Cylinder Cap.

Fig. 1921

Brass Retainer and Rubber Facing for Poppet Check Valve. Used on Glass Valve Seat. The rubber facing also used on Perfect Valve. Always state diameter of Lower Cylinder.

Fig. 1025

Upper Plunger Leather. Used on all Double Acting Pumps. Give size of small hole and diameter of Lower Cylinder.

Fig. 1026

Lower Bucket or Cup Leather. State diameter of Lower Cylinder and state if Open or Solid Center.

Fig. 1922

Fig. 1646

Old Style Hinged Check Valve Leather. Give diameter of Lower Cylinder and state if Bolted or Screw Cap.

RUBBER VALVES FOR POWER PUMPS.

Diam. In.	Thick In.	Hole In.	For Pumps.	
1 5/16	1/4	5/16	Nos. 600, 602 and 605	$0.30
2	3/8	7/16	Nos. 612, 502 and 501	.50
2 1/8	9/16	7/16	Nos. 613, 504, 503, 362, 353 and 351	1.00
3 1/8	5/8	9/16	Nos. 614 and 505	1.25
3 3/4	5/8	9/16	Nos. 615 and 363	1.50
4 1/2	5/8	9/16	Nos. 352, 346 and 616	2.00

Leathers and Canvas Buckets.

Diam. Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	5½	6	7	8
Upper Plunger Leathers, Fig. 1025. Price			$ .13		$ .15		$ .19	$ .23						
Actual Outside Measurement			1¾		2 1-16		2½	2⅞						
Lower Plunger Leathers, Cup Open Center, Fig. 1026	1¾-2 .13	.14	.15	.19	.20	.23	.26	.35	.45	.55	.75	.90	1.25	1.55
Lower Plunger Cup Leathers, Solid Center								.42	.50	.65	.95	1.15	1.90	2.20
Bucket Valve Leathers	.06	.06	.06	.10	.15	.15	.15	.20	.25	.25	.40	.50	.65	
Plunger Washers	.06	.06	.06	.06	.06	.06	.06	.06	.15	.15	.15			
Set of Plunger Leathers			.34		.40		.50	.65						
Check Valve Leathers.	.15	.15	.15	.20	.22	28	.30	.35	.43	.55	.75	1.25	1.55	
Check Valve Leathers, Old Style (Hinged) Fig. 1646		.25	.25		.30		.45	.65						
Canvas Buckets for Lower Plunger	.25	.25	.25		.30			.55		.95				
Canvas Buckets for Upper Plunger			.20		.25									
Leather Gaskets over Glass Seat, Fig. 1923		.06	.06		.06		.09	.09						
Leather Gasket for Cylinder Cap, Fig. 1923	.08	.08	.08	.08	.08	.10	.10	.14	.14	.19	.21	.25	.44	

Special or Odd Size Leathers for Tubular Well Working Barrels take same list as next larger size listed above as follows: 3¾ inch, list, $0.35; 4¼ inch, list, $0.45; 4¾ inch, list, $0.55: 5¾ inch, list, $0.90; 7¾ inch, list.....$1.55

Plunger Leathers (Cup), 1 inch, 1¼ inch and 1½ inch. List, each..... .06

Plunger Leathers (Cup), 1 1/16 inch, Soft, for Compressed Air Sprayer. List, each..... .06

Plunger Leathers (Cup), 1 1/16 inch, Soft, for Faultless Sprayer. List, each..... .06

Leather Gaskets for Hose Couplings up to 1 inch. List, doz..... .08

Leather Gaskets and Packing Rings for all Spray Nozzles and Male Ends. Doz..... .06

Rubber Discs, Fig. 1919, for Expansive Bucket.

Size, Diameter Lower Cylinder in inches	2½	2¾	3	3¼	3½
Size, Diameter Upper Cylinder in inches	1¾	1¾	2 1-16	2 1-16	2½
Price	$ .25	$ .25	$ .30	$ .30	$ .45

Rubber Gaskets, Fig. 1920 (Under Glass Valve Seat.)

Size, Diameter Cylinder in inches	2½	2¾	3	3¼	3½	3¾	4	4½
Size, Actual Outside Diameter of Gasket in inches	2 3-16	2 3-16	2⅝	2⅝	3⅛	3⅛	3¾	3¾
Rubber Gasket, to underlie Glass Valve Seat. Price	$ .06	$ .06	$ .06	$ .13	$ .13	$ .13	$ .19	$ .23

Rubber Valve Facing, Fig. 1921 (Under Poppet Valve.)

Size, Diameter Cylinder in inches	2	2¼	2½	2¾	3	3¼	3½	3¾	4	5	6
Rubber Facing to underlie Poppet Valve Price	$ .06	$ .06	$ .06	$ .06	$ .06	$ .13	$ .13	$ .13	$ .19	$ .38	$ .56
Brass Retainer			.13		13		.13		.13		
Size, Actual Outside Diameter of Gasket			1 13/16"		2"	2"	2⅝"	2⅝"	2 31/32"		

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Seamless Drawn Brass Cylinders.

Plungers Have Brass Cage and Valve, Regular.

Fig. 1324

Fig. 1526

Inside or Flush Cap Cylinders.

Fig. 214

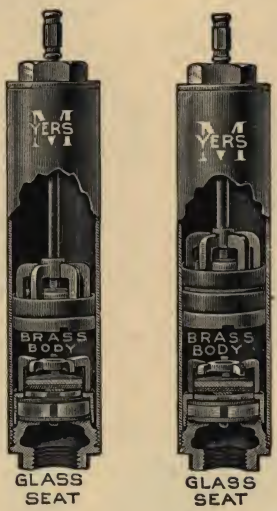


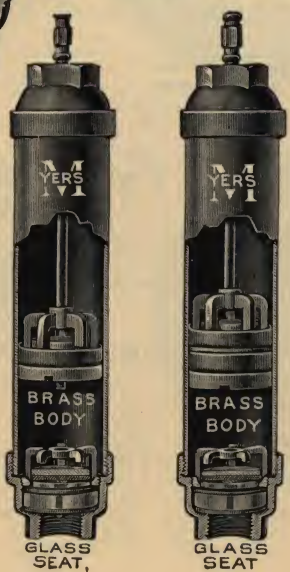
Fig. 577.

Fig. 1527

Cylinders 3½ inch and less have ⅜ inch rod.
4 and 4½ inch have ½ inch rod.
5 inch have ⅝ inch rod.
6 inch have ¾ inch rod.

Outside Cap Cylinders.

Fig. 215



Seamless Drawn Brass Cylinders.

Plungers Have Brass Cage and Valve, Regular.

Fig. 710 has Single Leather. Fig. 869 has Double Leathers.

Diam. in Inches	Length in Inches	Size of Pipe in Inches	Glass Seat, Brass Cage and Valve		Brass Seat, Brass Cage and Valve		All Brass Fig. 214		Iron Plunger Brass Seat	
			List Fig. 710 Plunger	List Fig. 869 Plunger	List Fig. 710 Plunger	List Fig. 869 Plunger	List Fig. 710 Plunger	List Fig. 869 Plunger	List Fig. 710 Plunger	List Fig. 869 Plunger
2 1/4	10	1 1/4			$ 6.00		$ 9.50	$10.00		
2 1/2	10	1 1/4	$ 6.25	The 10in.	6.00		10.00	10.75	$ 5.25	
2 3/4	10	1 1/4	6.50	length	6.25		10.75	12.25	5.75	
3	10	1 1/4	7.00	made in	6.50		12.00	13.50	6.00	
3 1/4	10	1 1/4	7.25	Fig. 215	7.00		14.50	16.25	6.50	
3 1/2	10	1 1/2	7.50	style only	7.25		17.00	18.75	7.00	
4	10	2	11.25		11.00		24.50	27.00	8.50	
1 3/4	12	1						7.50		
2	12	1 1/4					9.50	10.00		
2 1/4	12	1 1/4			6.50	$ 7.00	10.00	10.75		
2 1/2	12	1 1/4	7.00	$ 7.25	6.50	7.00	10.75	11.50	5.75	$ 6.00
2 3/4	12	1 1/4	7.25	7.75	7.00	7.25	11.25	13.00	6.00	6.50
3	12	1 1/4	7.50	8.00	7.25	7.75	12.50	14.25	6.25	6.75
3 1/4	12	1 1/4	7.75	8.50	7.50	8.00	15.00	17.25	6.75	7.50
3 1/2	12	1 1/2	8.00	8.75	7.75	8.25	17.75	19.75	7.50	8.00
4	12	2	12.00	13.00	11.50	12.50	25.75	28.25	9.75	10.75
4 1/2	12	2	17.75	19.00	17.50	18.75	28.75	32.75	14.50	15.50
5	12	2 1/2			25.00	27.00	35.75	42.00	18.50	20.00
6	12	3			36.25	38.75	50.00	60.75	25.75	28.00
1 3/4	14	1						8.25		
2	14	1 1/4					10.00	10.50		
2 1/4	14	1 1/4			7.25	7.50	10.75	11.50		
2 1/2	14	1 1/4	7.50	7.75	7.25	7.50	11.25	12.00	6.25	6.50
2 3/4	14	1 1/4	7.75	8.25	7.50	8.00	12.00	13.50	6.50	7.00
3	14	1 1/4	8.00	8.50	7.75	8.25	13.25	14.75	6.75	7.25
3 1/4	14	1 1/4	8.50	9.00	8.00	8.75	16.25	18.00	7.25	8.00
3 1/2	14	1 1/2	8.75	9.50	8.50	9.00	18.75	20.50	8.00	9.00
4	14	2	12.50	13.50	12.25	13.25	26.25	27.75	10.25	11.50
4 1/2	14	2	18.75	20.00	18.50	19.75	30.75	34.50	15.75	16.75
5	14	2 1/2			27.25	29.00	38.00	44.00	22.00	23.50
5 1/2	14	3			31.75	34.00	45.00	53.25		
6	14	3			38.75	41.25	52.50	63.25	32.50	35.00
1 3/4	16	1						8.75		
2	16	1 1/4					10.75	11.25		
2 1/4	16	1 1/4			7.75	8.00	11.25	12.00		
2 1/2	16	1 1/4	8.00	8.50	7.75	8.00	12.00	12.75	6.75	7.25
2 3/4	16	1 1/4	8.50	9.00	8.00	8.50	12.50	14.25	7.00	7.50
3	16	1 1/4	8.75	9.25	8.50	9.00	13.75	15.50	7.50	8.00
3 1/4	16	1 1/4	9.00	9.75	8.75	9.50	17.25	19.00	7.75	8.50
3 1/2	16	1 1/2	9.50	10.00	9.00	9.75	19.75	21.50	9.00	9.75
4	16	2	13.00	14.25	12.75	13.75	27.50	30.25	11.50	12.75
4 1/2	16	2	19.75	21.00	19.50	20.50	32.25	36.25	16.25	17.50
5	16	2 1/2			29.50	31.50	40.00	46.25	23.25	24.75
5 1/2	16	3			35.75	37.75	47.50	55.75		
6	16	3			41.25	43.75	55.00	65.50	35.75	38.00
1 3/4	18	1						9.50		
2	18	1 1/4					11.25	12.00		
2 1/4	18	1 1/4			8.50	8.75	12.00	12.75		
2 1/2	18	1 1/4	8.75	9.00	8.50	8.75	12.50	13.25	7.50	8.00
2 3/4	18	1 1/4	9.00	9.50	8.75	9.25	13.00	14.75	7.75	8.25
3	18	1 1/4	9.50	10.00	9.00	9.50	14.50	16.00	8.00	8.75
3 1/4	18	1 1/4	9.75	10.25	9.50	10.00	15.50	17.25	8.50	9.25
3 1/2	18	1 1/2	10.00	10.75	9.75	10.25	20.75	22.50	9.75	10.50
4	18	2	13.75	14.75	13.50	14.50	28.75	31.50	12.75	14.00
4 1/2	18	2	20.75	21.75	20.25	21.50	33.75	37.75	18.25	19.25
5	18	2 1/2			31.50	33.50	42.25	48.50	26.25	28.00
5 1/2	18	3			37.50	39.50	50.00	58.25		
6	18	3			43.75	46.25	57.50	68.00	39.50	41.75
1 3/4	20	1						10.00		
2	20	1 1/4					12.00	12.50		
2 1/4	20	1 1/4			9.00	9.50	12.50	13.25		
2 1/2	20	1 1/4	9.50	9.75	9.00	9.50	13.25	14.00	8.00	8.50
2 3/4	20	1 1/4	9.75	10.25	9.50	10.00	13.75	15.50	8.50	9.00
3	20	1 1/4	10.00	10.50	9.75	10.25	15.00	16.75	8.75	9.25
3 1/4	20	1 1/4	10.25	11.00	10.00	10.75	16.25	18.00	9.25	10.00
3 1/2	20	1 1/2	10.75	11.25	10.25	11.00	21.50	23.50	10.75	11.50
4	20	2	14.50	15.50	14.00	15.00	30.00	32.75	13.75	14.75
4 1/2	20	2	21.50	22.75	21.25	22.50	35.25	39.25	22.25	23.50
5	20	2 1/2			33.75	35.75	44.50	50.75	29.50	31.00
5 1/2	20	3			41.25	43.75	52.50	60.75		
6	20	3			46.25	48.75	60.00	70.75	42.25	44.75

Any of above Cylinders made 24 inches or longer, add to above list the relative difference for length desired. All Cylinders will be shipped with Fig. 710 Plunger unless Fig. 869 is specified. An extra charge will be made for tapping different than specified in lists as given above. Glass Seat Cylinders will be shipped unless Brass Seat is specified. An extra charge will be made for Galvanized Caps.

Seamless Drawn Brass Cylinders.

With Bolted Iron Caps.

Sectional View of Cap, showing special packing ring.
Fig. 1310.

Cylinders		Rod
3 1/2" and less have	3/8"	Rod
4" to 4 1/2"	" 1/2"	"
5"	" 5/8"	"
6"	" 3/4"	"

Fig. 1142.

Fig. 1339 represents the Seamless Drawn Brass Cylinders as built with iron caps held together by means of three heavy steel bolts, which permit of it being taken apart by using an ordinary wrench.

One of the special features of this cylinder is that the caps have a milled groove in which is placed the leather packing to receive the edge of the cylinder, which prevents the packing from being blown out under any circumstances.

In addition to the above the lower cap has a metal ring (see Fig. 1310) which assists in holding the packing in place. The valve seat is heavy brass, screwed into position, and also rests on the leather ring packing, which guards against losing priming. The shell is an extra heavy seamless drawn brass tube. The plunger has brass cage and seat, and is fitted with double leathers.

Fig. 1340.

Fig. 1025. Upper Leather.

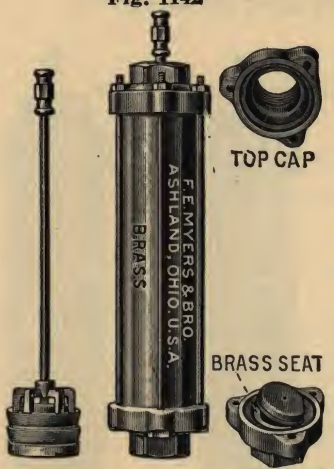
Fig. 1026. Lower Bucket Leather.

Figs. 1025 and 1026 respectively illustrate the upper and lower leathers as used on Myers Pumps.

Fig. 1340 represents a carton holding one dozen pump leathers and shows the manner in which we ship all pump leathers ordered in dozen lots. This receptacle not only keeps the leathers in their natural shape, but is a convenient way of storing them in the stock-room.

Seamless Drawn Brass Cylinders.

Fig. 1142



With Bolted Iron Caps.

All Plungers Have Brass Cage and Valve.

Fig. 1310. Sectional View of Cap, showing special packing ring.

Fig. 1310

Fig. 1191

Fig. 869
(Hazer)
Cage Valve
Double Leather
Plunger
½ in. Follower.

Furnished with Fig. 869 Plunger only.

Figs. 1142 and 1191 illustrate our bolted cap brass body cylinder. This is a special heavy cylinder made with seamless drawn brass body, heavy iron caps held together by three bolts. The plunger has a brass cage with two leathers. The main feature of this cylinder is in the packing of the caps. The caps have a milled groove in which is placed a leather packing to receive the edge of the cylinder, thus preventing the packing from being blown out under any circumstances. The lower cap is similarly fitted to the above, and in addition has a metal ring which assists in holding the packing in place. The valve seat is heavy brass screwed into position and also rests on the leather ring packing, which guards against losing priming.

PRICE LIST, Fig. 1142.

Diam. in Inches	Length in Inches	Size of Pipe in Inches	Length of Stroke	Code	List	Diam. in Inches	Length in Inches	Size of Pipe in Inches	Length of Stroke	Code	List
2	12	1¼	7	*Meb*	$7.75	4½	16	2	11	*Moj*	$20.75
2¼	12	1¼	7	*Mec*	7.75	5	16	2½	11	*Mok*	31.50
2½	12	1¼	7	*Med*	7.75	6	16	3	11	*Mol*	43.75
2¾	12	1¼	7	*Mee*	8.50	7	16	4	11	*Mom*	65.00
3	12	1½	7	*Mef*	8.50	8	16	4	11	*Plaid*	81.25
3¼	12	1½	7	*Meg*	9.50						
3½	12	2	7	*Meh*	9.50	2	18	1¼	13	*Mon*	9.75
4	12	2	7	*Mei*	13.00	2¼	18	1¼	13	*Mop*	9.75
4½	12	2	7	*Mej*	18.75	2½	18	1¼	13	*Mor*	9.75
5	12	2½	7	*Mek*	27.00	2¾	18	1¼	13	*Mos*	10.50
6	12	3	7	*Mel*	38.75	3	18	1½	13	*Mot*	10.50
7	12	4	7	*Mem*	60.00	3¼	18	1½	13	*Mou*	11.25
						3½	18	1½	13	*Mov*	11.25
2	14	1¼	9	*Men*	8.50	4	18	2	13	*Mow*	14.75
2¼	14	1¼	9	*Meo*	8.50	4½	18	2	13	*Mox*	21.50
2½	14	1¼	9	*Mep*	8.50	5	18	2½	13	*Moy*	33.50
2¾	14	1½	9	*Mer*	9.25	6	18	3	13	*Moz*	46.25
3	14	1½	9	*Mes*	9.25	7	18	4	13	*Mib*	67.50
3¼	14	2	9	*Met*	10.00	8	18	4	13	*Plait*	86.25
3½	14	2	9	*Meu*	10.00						
4	14	2	9	*Mev*	13.50	2	20	1¼	15	*Mic*	10.25
4½	14	2	9	*Mew*	19.75	2¼	20	1¼	15	*Mid*	10.25
5	14	2½	9	*Mex*	30.50	2½	20	1¼	15	*Mif*	10.25
6	14	3	9	*Mey*	41.25	2¾	20	1¼	15	*Mig*	11.00
7	14	4	9	*Mez*	62.50	3	20	1½	15	*Mih*	11.00
						3¼	20	1½	15	*Mij*	12.00
2	16	1¼	11	*Mob*	9.00	3½	20	2	15	*Mik*	12.00
2¼	16	1¼	11	*Moc*	9.00	4	20	2	15	*Mil*	15.50
2½	16	1¼	11	*Mod*	9.00	4½	20	2	15	*Mim*	22.50
2¾	16	1¼	11	*Moe*	9.75	5	20	2½	15	*Min*	35.75
3	16	1½	11	*Mof*	9.75	6	20	3	15	*Mio*	48.75
3¼	16	1½	11	*Mog*	10.75	7	20	4	15	*Mip*	70.00
3½	16	2	11	*Moh*	10.75	8	20	4	15	*Plan*	91.25
4	16	2	11	*Moi*	14.00	8	24	4	19	*Plea*	106.25

Not furnished with brass caps.
Cylinders tapped other than regular as above will be charged for extra.
Extra charge for galvanized caps.

F. E. MYERS AND BRO.

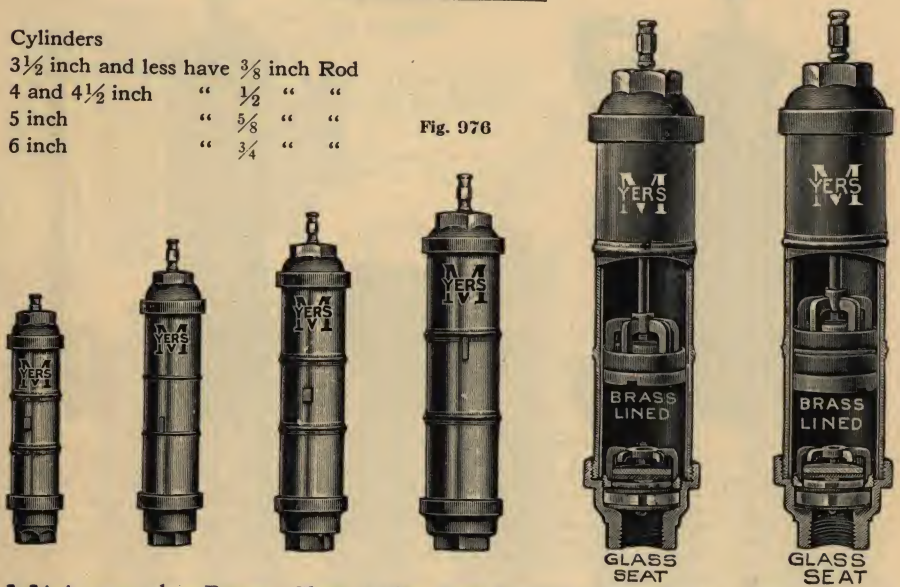
ASHLAND, OHIO, U.S.A.

Improved Brass Lined Pump Cylinders.

Plungers Have Brass Cage and Valve, Regular.

Cylinders			
3½ inch and less have	⅜	inch	Rod
4 and 4½ inch	½	"	"
5 inch	⅝	"	"
6 inch	¾	"	"

Fig. 976



We use the *Patent Glass Valve Seat* because *glass* is the only material that will not *corrode* or *rust* and accumulate a vitrous substance which *hardens the leather* and causes the pump *to lose priming*, as is the case with brass, iron or any other metal.

Fig. 976

Fig. 973

Fig. 1527

Fig. 974

Fig. 869
(*Hazer*)
Cage Valve Double Leather Plunger, ½ Inch Follower.

Fig. 710
(*Hark*)
Single Leather Plunger.

Fig. 710 plunger furnished regularly unless otherwise specified on order.

Improved Brass Lined Pump Cylinders.

All Plungers Fitted Regularly With Brass Cage and Valve.

Fig. 710 Plunger has Single Leather.
Fig. 869 Plunger has Double Leather.

PRICE LIST, Fig. 976.

Diam. in Inches	Length in Inches	Size of Pipe in Inches	Length of Stroke	Glass Seat List		Length of Stroke	Brass Seat List		Length of Stroke	Iron Seat List	
				Fig. 710 Plunger	Fig. 869 Plunger		Fig. 710 Plunger	Fig. 869 Plunger		Fig. 710 Plunger	Fig. 869 Plunger
2 ¼	10	1 ¼	7 ½	$ 5.00	$ 5.25	7 ½	$ 4.75	$ 5.00	8	$ 4.50	$ 4.75
2 ½	10	1 ¼	8	5.00	5.25	7 ½	4.75	5.00	8 ½	4.50	4.75
2 ¾	10	1 ¼	8	5.25	5.75	7 ½	5.00	5.50	8	4.75	5.25
3	10	1 ¼	8	5.75	6.00	7 ½	5.25	5.75	8	5.00	5.50
3 ¼	10	1 ¼	8	6.00	6.50	7 ½	5.75	6.25	8	5.25	6.00
3 ½	10	1 ½	7 ½	6.25	7.00	7	6.00	6.50	7 ½	5.75	6.50
4	10	2	6 ½	8.00	9.25	7	7.75	8.75	7	7.50	8.50
2	12	1 ¼				8 ½	5.25	5.75		5.00	5.50
2 ¼	12	1 ¼	9 ½	5.75	6.00	9 ½	5.25	5.75	10	5.00	5.50
2 ½	12	1 ¼	10	5.75	6.00	9	5.25	5.75	10 ½	5.00	5.50
2 ¾	12	1 ¼	10	6.00	6.50	9 ½	5.75	6.00	10	5.25	5.75
3	12	1 ¼	10	6.25	6.75	9 ½	6.00	6.50	10	5.75	6.25
3 ¼	12	1 ¼	10	6.50	7.25	9 ½	6.25	7.00	10	6.00	6.75
3 ½	12	1 ½	9 ½	7.00	7.50	9	6.50	7.25	9 ½	6.25	7.00
4	12	2	8 ½	8.75	9.75	9	8.50	9.75	9	8.00	9.25
4 ½	12	2	9	12.50	13.75	9	12.25	13.50	9	12.00	13.00
5	12	2 ½				8	18.50	20.50	9	18.25	19.75
6	12	3				7 ½	27.50	30.00	8	27.00	29.25
2	14	1 ¼				10 ½	6.00	6.25		5.75	6.00
2 ¼	14	1 ¼	11 ½	6.25	6.50	11 ½	6.00	6.25	12	5.75	6.00
2 ½	14	1 ¼	12	6.25	6.50	11	6.00	6.25	12 ½	5.75	6.00
2 ¾	14	1 ¼	12	6.50	7.00	11 ½	6.25	6.75	12	6.00	6.50
3	14	1 ¼	12	7.00	7.25	11 ½	6.50	7.00	12	6.25	6.75
3 ¼	14	1 ¼	12	7.25	7.75	11 ½	7.00	7.50	12	6.50	7.25
3 ½	14	1 ½	11 ½	7.50	8.00	11	7.25	7.75	11 ½	7.00	7.75
4	14	2	10 ½	9.50	10.50	11	9.00	10.00	11	8.75	10.00
4 ½	14	2	11	13.50	14.75	11	13.00	14.25	11	12.75	14.00
6	14	3				9 ½	30.00	32.50	10	29.50	31.75
2	16	1 ¼				12 ½	6.50	7.00		6.25	6.75
2 ¼	16	1 ¼	13 ½	7.00	7.25	13 ½	6.50	7.00	14	6.25	6.75
2 ½	16	1 ¼	14	7.00	7.25	13	6.50	7.00	14 ½	6.25	6.75
2 ¾	16	1 ¼	14	7.25	7.75	13 ½	7.00	7.25	14	6.50	7.00
3	16	1 ¼	14	7.50	8.00	13 ½	7.25	7.75	14	7.00	7.25
3 ¼	16	1 ¼	14	7.75	8.50	13 ½	7.50	8.00	14	7.25	8.00
3 ½	16	1 ½	13 ½	8.00	8.75	13	7.75	8.50	13 ½	7.50	8.25
4	16	2	12 ½	10.00	11.00	13	9.75	10.75	13	9.50	10.50
4 ½	16	2	13	14.50	15.50	13	14.00	15.25	13	13.75	15.00
5	16	2 ½				12	22.75	22.25	13	22.50	24.25
6	16	3				11 ½	32.50	35.00	12	31.75	34.25
2 ½	18	1 ¼	16	7.50	7.75	15	7.25	7.50	16 ½		
3	18	1 ¼	16	8.00	8.50	15 ½	7.75	8.00	16	7.50	8.00
3 ½	18	1 ½	15 ½	8.75	9.50	15	8.50	9.00	15 ½	8.00	9.00
4	18	2	14 ½	10.75	11.75	15	10.25	11.25	15	10.00	11.00
4 ½	18	2	15	15.75	17.00	15	15.25	16.50	15	15.00	16.25
5	18	2 ½					25.00	27.00			
6	18	3				13 ½	35.00	37.50	14 ½	34.25	36.75

NOTE—Glass Seat Clyinders, as listed, shipped unless otherwise ordered.
All Cylinders will be shipped with 710 Plunger unless Fig. 869 Plunger is specified.
Cylinders with 869 Plungers, length stroke 1 inch shorter than above.
Extra Charge for Different Tapping.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Improved Iron Pump Cylinders.

All Iron Plungers.

Fig. 1516

Fig. 977

Fig. 710 plunger furnished regularly unless otherwise specified on order.

Polished Iron Cylinders, Iron Seat, Fig. 977.

Diameter in Inches	Length 10 inches, 710 Plunger.	869 Plunger	Length 12 inches, 710 Plunger	869 Plunger	Length 14 inches, 710 Plunger	869 Plunger
2½	$2.25	$2.50	$3.25	$3.50	$3.50	$3.75
2¾			3.50	4.00	3.75	4.25
3	2.50	3.00	3.75	4.25	4.00	4.50
3½	3.50	4.25	4.75	5.50	5.25	6.00
4	4.50	5.50	6.00	7.00	7.00	8.00
4½					9.50	10.50
5					12.00	13.50
6					17.50	20.00

Diameter in Inches	Length 16 inches, 710 Plunger	869 Plunger	Length 18 inches, 710 Plunger	869 Plunger	Length 20 inches, 710 Plunger	869 Plunger
2½	$3.75	$4.25	$4.00	$4.50		
2¾	4.00	4.50	4.50	5.00		
3	4.50	5.00	4.75	5.25	$5.00	$5.50
3½	6.00	6.75	6.50	7.25	7.25	8.00
4	7.50	8.50	8.00	9.25	8.75	9.75
4½	10.00	11.25	12.00	13.00	13.00	14.25
5	13.00	14.75	15.75	17.25	17.50	19.00
6	19.50	21.75	22.50	25.00	25.50	28.00

For List on Polished Iron Cylinders with Perfect Brass Seat, Fig. 1516, add to Iron Seat list as follows:

3 inch and smaller, 25c. 3½ inch, 35c. 4 inch, 50c.

We furnish no other style of Brass Seat on Polished Cylinders.

NOTE—Iron seat cylinders shipped unless otherwise ordered.
Extra Charge for Tapping different from standard.

Length of Stroke.

Myers Brass Cylinders. Fig. 214.

Diameter, Inches	Length	Fig. No. 710 Plunger		Fig. No. 869 Plunger	
		Glass Seat	Brass Seat	Glass Seat	Brass Seat
		Length of Stroke	Length of Stroke	Length of Stroke	Length of Stroke
1¾	12				7
1¾	14				9
1¾	16				11
1¾	18				13
2	12		8		7½
2	14		10		9½
2	16		12		11½
2	18		14		13½
2¼	12		7		
2¼	14		9		8
2¼	16		11		10
2¼	18		13		12
2½	12	6½	7½		
2½	14	8½	9½	8	8½
2½	16	10½	11½	10	10½
2½	18	11½	13½	12	12½
2¾	12	7	8		
2¾	14	9	10	8	9
2¾	16	11	12	10	11
2¾	18	13	14	12	13
3	12	6½	7½		
3	14	8½	9½	7½	8½
3	16	10½	11½	9½	10½
3	18	12½	13½	11½	12½
3¼	12	6½	7½		
3¼	14	8½	9½	7½	8½
3¼	16	10½	11½	8½	10½
3¼	18	12½	13½	11½	12½
3½	12	6½	7½		
3½	14	8½	9½	7½	8½
3½	16	10½	11½	8½	10½
3½	18	12½	13½	11½	12½
4	12	6	6½		
4	14	8	8½	7	7½
4	16	10	10½	9	9½
4	18	12	12½	11	11½
4½	12	5½	6½		
4½	14	7½	8½	6½	7½
4½	16	9½	10½	8½	9½
4½	18	11½	12½	10½	11½
5	12		6		5
5	14		8		7
5	16		10		9
5	18		12		11
6	12		5½		
6	14		7½		6
6	16		9½		8
6	18		11½		10

Diameter, Inches	Length	Fig. No. 710 Plunger		Fig. No. 869 Plunger	
		Glass Seat	Brass Seat	Glass Seat	Brass Seat
		Length of Stroke	Length of Stroke	Length of Stroke	Length of Stroke
2	10		6½		
2	12		8½		7½
2	14		10½		9½
2	16		12½		11½
2	18		14½		13½
2¼	10		6½		
2¼	12		8½		8
2¼	14		10½		10
2¼	16		12½		12
2¼	18		14½		14
2½	10	7	7		
2½	12	9	9	8½	8
2½	14	11	11	10½	10
2½	16	13	13	12½	12
2½	18	15	15	14½	14
2¾	10	7	6½		
2¾	12	9	8½	8½	8
2¾	14	11	10½	10½	10
2¾	16	13	12½	12½	12
2¾	18	15	14½	14½	14
3	10	7½	7		
3	12	9½	9	8½	8
3	14	11½	11	10½	10
3	16	13½	13	12½	12
3	18	15½	15	14½	14
3¼	10	7	6½		
3¼	12	9	8½	8	7½
3¼	14	11	10½	10	9½
3¼	16	13	12½	12	11½
3¼	18	15	14½	14	13½
3½	10	7½	7		
3½	12	9½	9	8½	8
3½	14	11½	11	10½	10
3½	16	13½	13	12½	12
3½	18	15½	15	14½	14
4	10	6½	6½		
4	12	8½	8½	8	7½
4	14	10½	10½	10	9½
4	16	12½	12½	12	11½
4	18	14½	14½	14	13½
4½	10	6	6		
4½	12	8	8	7	7
4½	14	10	10	9	9
4½	16	12	12	11	11
4½	18	14	14	13	13
5	12		7½		6
5	14		9½		8
5	16		11½		10
5	18		13½		12
6	12		7		6
6	14		9		8
6	16		11		10
6	18		13		12

Fig. 1142 Cylinder. . Stroke is 2 inches longer than the Fig. 214 Cylinder.

The Myers Brass Lined Working Barrel.

With Brass Poppet Valve.

Fitted with Removable Two Leather All Brass Plunger.

Fig. 1402 represents our new Brass Lined Working Barrel, which is designed for use with any of our power working heads. The shell is heavy wrought steel, lined with a special heavy seamless drawn brass tube, swaged out at upper end and tapered at lower end to form seat for the check valve.

The space between lining and shell at lower end is filled with composition metal to hold it securely in place. The plungers are brass, nicely machined, and fitted with bronze valves. Both plunger and check valve can be withdrawn and replaced through the well pipe when repairing. The cylinder forms a part of the well pipe and can be located at any point when constructing a well, or can be used in an open well same as any other style cylinder.

Cylinders can be fitted for any size pipe by using ordinary pipe fittings.

Fig. 1402

Diameter of Cylinder in Inches. Outside.	Diameter of Cylinder in Inches. Inside.	Length Stroke, Inches.	Length Barrel, Inches.	Capacity in Gallons, one Revolution of CrankShaft	Size Pin in Plunger, Inches.	CODE.	List of Cylinder, Complete as shown
2	1 13/16	10	16	.11	5/8	*Pasade*	$ 8.25
2	1 13/16	16	23	.17	5/8	*Passe*	9.50
2	1 13/16	20	27	.22	5/8	*Passer*	10.75
2	1 13/16	30	37	.33	5/8	*Passus*	11.75
2	1 13/16	42	49	.45	5/8	*Past*	15.25
2 1/2	2 1/4	10	18	.17	7/8	*Paste*	13.50
2 1/2	2 1/4	16	24	.26	7/8	*Pasty*	15.00
2 1/2	2 1/4	20	28	.35	7/8	*Pat*	16.00
2 1/2	2 1/4	30	38	.52	7/8	*Patch*	19.00
2 1/2	2 1/4	42	50	.70	7/8	*Pate*	21.75
3	2 3/4	10	20	.25	7/8	*Pated*	17.50
3	2 3/4	16	26	.38	7/8	*Paten*	19.25
3	2 3/4	20	30	.50	7/8	*Patena*	20.75
3	2 3/4	30	40	.75	7/8	*Patent*	24.25
3	2 3/4	42	52	1.04	7/8	*Path*	28.25
3 1/2	3 1/4	10	22	.35	7/8	*Pathic*	24.75
3 1/2	3 1/4	16	28	.55	7/8	*Pathos*	27.00
3 1/2	3 1/4	20	32	.70	7/8	*Patly*	28.25
3 1/2	3 1/4	30	42	1.05	7/8	*Patio*	32.75
3 1/2	3 1/4	42	54	1.43	7/8	*Patrol*	37.25
4	3 3/4	10	22	.48	7/8	*Patron*	33.75
4	3 3/4	16	28	.72	7/8	*Patte*	38.25
4	3 3/4	20	32	.95	7/8	*Patten*	39.50
4	3 3/4	30	42	1.42	7/8	*Pave*	45.00
4	3 3/4	42	54	1.90	7/8	*Paven*	50.50
4 1/2	4 1/4	10	26	.65	1 1/8	*Paver*	47.25
4 1/2	4 1/4	16	34	.95	1 1/8	*Pavin*	51.75
4 1/2	4 1/4	20	38	1.25	1 1/8	*Pavo*	54.00
4 1/2	4 1/4	30	48	1.87	1 1/8	*Pavon*	60.75
4 1/2	4 1/4	42	60	2.50	1 1/8	*Paw*	67.50
5	4 3/4	24	40	1.84	1 1/8	*Pawk*	74.25
5	4 3/4	30	48	2.30	1 1/8	*Pawi*	85.50
5	4 3/4	42	60	3.06	1 1/8	*Pawl*	90.00
6	5 3/4	24	44	2.70	1 1/8	*Pawn*	112.50
6	5 3/4	30	52	3.38	1 1/8	*Pax*	120.50
6	5 3/4	42	64	4.50	1 1/8	*Pay*	133.00

In ordering, give size of well pipe and length of stroke wanted.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Brass Lined Working Barrel.

With Bronze Spool Valve.

Fitted With Removable Three Leather all Brass Plunger.

Fig. 1403 represents our new Brass Lined Working Barrel, which is designed for use with any of our power working heads. The shell is heavy wrought steel, lined with a special heavy seamless drawn brass tube, swaged out at upper end and tapered at lower end to form seat for the check valve.

The space between lining and shell at lower end is filled with composition metal to hold it securely in place. The plungers are brass, nicely machined, and fitted with bronze spool valves faced with leather. Both plunger and check valve can be withdrawn and replaced through the well pipe when repairing. The cylinder forms a part of the well pipe and can be located at any point when constructing a well, or can be used in an open well same as any other style cylinder.

Cylinders can be fitted for any size pipe by using ordinary pipe fittings.

Fig. 1403

Diameter of Cylinder in Inches.		Length Stroke, Inches	Length Barrel, Inches	Capacity in Gallons, one Revolution of Crank Shaft	Size Pin in Plunger, Inches	CODE	List of Cylinder, Complete as shown
Outside.	Inside.						
2	1 13/16	8	16	.09	5/8	*Plane*	$ 9.50
2	1 13/16	14	23	.17	5/8	*Planer*	10.75
2	1 13/16	18	27	.21	5/8	*Payn*	12.00
2	1 13/16	28	37	.32	5/8	*Payor*	13.00
2	1 13/16	40	49	.45	5/8	*Payse*	16.75
2 1/2	2 1/4	8	18	.14	7/8	*Pea*	15.00
2 1/2	2 1/4	14	24	.22	7/8	*Peace*	16.25
2 1/2	2 1/4	18	28	.30	7/8	*Peachy*	17.25
2 1/2	2 1/4	28	38	.48	7/8	*Peage*	20.25
2 1/2	2 1/4	40	50	.70	7/8	*Peak*	23.00
3	2 3/4	8	20	.20	7/8	*Peaked*	19.25
3	2 3/4	14	26	.35	7/8	*Peaky*	20.75
3	2 3/4	18	30	.48	7/8	*Peal*	22.50
3	2 3/4	28	40	.71	7/8	*Pean*	26.00
3	2 3/4	40	52	1.02	7/8	*Planet*	30.50
3 1/2	3 1/4	8	22	.28	7/8	*Plank*	29.25
3 1/2	3 1/4	14	28	.46	7/8	*Plant*	31.50
3 1/2	3 1/4	18	32	.63	7/8	*Plash*	32.75
3 1/2	3 1/4	28	42	1.00	7/8	*Peanut*	37.25
3 1/2	3 1/4	40	54	1.43	7/8	*Pear*	41.75
4	3 3/4	8	22	.38	7/8	*Pearch*	38.50
4	3 3/4	14	28	.60	7/8	*Pearl*	44.00
4	3 3/4	18	32	.90	7/8	*Pearly*	45.00
4	3 3/4	28	42	1.33	7/8	*Peart*	50.75
4	3 3/4	40	54	1.90	7/8	*Pease*	56.25

In ordering, give size of well pipe and length of stroke wanted.

The Myers Brass Lined Working Barrel.

With Bronze Ball Valves.

Fitted With Removable Four Leather all Brass Plunger.

Fig. 1153 represents our new Brass Lined Working Barrel, which is designed for use with any of our power working heads. The shell is heavy wrought steel, lined with a special heavy seamless drawn brass tube, swaged out at upper end and tapered at lower end to form seat for the check valve.

The space between lining and shell at lower end is filled with composition metal to hold it securely in place. The plungers are brass, nicely machined, and fitted with bronze ball valves. Consists of two pieces, having one joint which is firmly secured by lock nut. Both plunger and check valve can be withdrawn and replaced through the well pipe when repairing. The cylinder forms a part of the well pipe and can be located at any point when constructing a well, or can be used in an open well same as any other style cylinder.

Fig. 1153

Cylinders can be fitted for any size pipe by using ordinary pipe fittings.

Diameter of Cylinder in Inches.		Length Stroke, Inches	Length Barrel, Inches	Capacity in Gallons, one Revolution of Crank Shaft	Size pin in plunger, Inches	CODE	List of Cylinder, Complete as shown
Outside.	Inside.						
2	1 3/16	10	23	.12	5/8	*Mab*	$ 14.50
2	1 3/16	14	27	.16	5/8	*Mac*	15.00
2	1 3/16	24	37	.27	5/8	*Mad*	17.00
2	1 3/16	36	49	.40	5/8	*Maf*	19.50
2 1/2	2 1/4	10	24	.17	7/8	*Mag*	19.50
2 1/2	2 1/4	14	28	.24	7/8	*Maid*	20.75
2 1/2	2 1/4	24	38	.41	7/8	*Mail*	22.50
2 1/2	2 1/4	36	50	.62	7/8	*Main*	24.50
3	2 3/4	10	26	.25	7/8	*Make*	27.00
3	2 3/4	14	30	.36	7/8	*Mal*	28.25
3	2 3/4	24	40	.61	7/8	*Malt*	30.75
3	2 3/4	36	52	.92	7/8	*Mam*	34.00
3 1/2	3 1/4	10	28	.36	7/8	*Man*	39.75
3 1/2	3 1/4	14	32	.50	7/8	*Mane*	41.00
3 1/2	3 1/4	24	42	.86	7/8	*Manner*	44.00
3 1/2	3 1/4	36	54	1.29	7/8	*Mantle*	47.75
4	3 3/4	10	28	.48	7/8	*Map*	56.00
4	3 3/4	14	32	.67	7/8	*Mar*	58.00
4	3 3/4	24	42	1.14	7/8	*March*	61.75
4	3 3/4	36	54	1.72	7/8	*Marine*	66.00
4 1/2	4 1/4	10	34	.61	1 1/8	*Mark*	68.75
4 1/2	4 1/4	14	38	.86	1 1/8	*Market*	70.50
4 1/2	4 1/4	24	48	1.47	1 1/8	*Marl*	79.50
4 1/2	4 1/4	36	60	2.21	1 1/8	*Maroon*	82.50
5	4 3/4	24	48	1.84	1 1/8	*Mars*	98.00
5	4 3/4	36	60	2.76	1 1/8	*Marsh*	108.00
6	5 3/4	24	52	2.69	1 1/8	*Mart*	141.00
6	5 3/4	36	64	4.04	1 1/8	*Martin*	156.00
7	6 3/4	24	56	3.71	1 1/2	*Marvel*	191.00
7	6 3/4	36	68	5 57	1 1/2	*Mash*	209.00
8	7 7/16	24	58	4.59	1 1/2	*Mason*	297.00
8	7 7/16	36	70	6.88	1 1/2	*Mast*	315.00
9	8 1/2	24	60	5.88	1 1/2	*Master*	360.00
9	8 1/2	36	72	8.82	1 1/2	*Mat*	410.00
10	9 1/2	24	68	7.34	1 1/2	*Match*	580.00
10	9 3/8	36	76	11.00	1 1/2	*Mate*	620.00

In ordering, give size of well pipe and length of stroke wanted.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers All Brass Working Barrel.

With Ball Valve, Spool Valve or Poppet Valve.

Fig. 1404

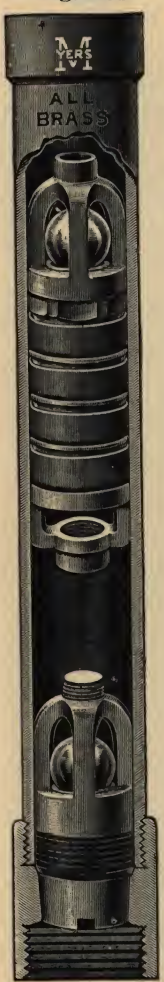


Fig. 1404 illustrates the Myers All Brass Working Barrel. The barrel is made of heavy seamless drawn brass tubing with brass caps, fitted with different style valves as specified in list.

These cylinders may be placed in open wells or drilled wells where the casing is large enough to take the cylinder attachments. They are adapted to work in the deepest wells.

The cut shows a cylinder fitted with ball valve. We also furnish this cylinder with spool valves or poppet valves as shown in list and illustrated in Brass Lined Working Barrels, Figs. 1402 and 1403.

Cylinders can be fitted for any size pipe by using ordinary pipe fittings.

Inside Diameter of Cylinder, Inches	Length Stroke, Inches. See Note Below	Length Barrel, Inches	CODE	List of Cylinder, Complete, as shown. Ball Valves.	CODE	List of Cylinder, Complete, with Spool Valves like Fig. 1403	CODE	List of Cylinder, Complete, with Poppet Valves like Fig. 1402
1 13/16	10	23	*Pedal*	$17.25	*Perk*	$13.00	*Piece*	$11.00
1 13/16	14	27	*Pee*	18.75	*Perky*	14.50	*Pied*	12.50
1 13/16	24	37	*Peek*	20.75	*Pern*	16.50	*Piend*	14.50
1 13/16	36	49	*Peel*	23.00	*Pert*	18.75	*Pier*	16.75
2 1/4	10	24	*Peele*	25.75	*Pest*	21.25	*Piet*	19.75
2 1/4	14	28	*Peen*	27.00	*Pet*	22.50	*Pieta*	21.00
2 1/4	24	38	*Peep*	29.75	*Petal*	25.25	*Piety*	23.75
2 1/4	36	50	*Peer*	33.50	*Peter*	29.00	*Pig*	27.50
2 3/4	10	26	*Peert*	33.50	*Petit*	26.00	*Pika*	24.00
2 3/4	14	30	*Peg*	35.00	*Petre*	27.50	*Pilch*	25.50
2 3/4	24	40	*Pein*	37.50	*Petro*	30.00	*Pile*	28.00
2 3/4	36	52	*Peise*	41.50	*Petto*	34.00	*Piled*	32.00
3 1/4	10	28	*Pekan*	44.50	*Pew*	35.00	*Piler*	29.50
3 1/4	14	32	*Pekoe*	47.00	*Phane*	37.50	*Pill*	32.00
3 1/4	24	42	*Pela*	51.50	*Phare*	42.50	*Pilot*	36.50
3 1/4	36	54	*Pell*	57.50	*Pharo*	48.50	*Pin*	42.50
3 3/4	10	28	*Pelma*	66.75	*Phebe*	52.75	*Pinax*	44.50
3 3/4	14	32	*Pelt*	68.75	*Pheer*	54.75	*Pinch*	46.50
3 3/4	24	42	*Pelta*	74.25	*Pheon*	60.00	*Pine*	52.00
3 3/4	36	54	*Pen*	84.00	*Phial*	80.00	*Ping*	62.00
4 1/4	10	34	*Penal*	86.50		.....	*Pink*	65.00
4 1/4	14	38	*Pence*	88.50		.....	*Pinky*	67.00
4 1/4	24	48	*Pend*	94.00		.....	*Pint*	72.50
4 1/4	36	60	*Penk*	104.00		.....	*Piny*	82.50
4 3/4	24	48	*Penny*	134.00		.....	*Pip*	110.00
4 3/4	36	60	*Pent*	148.50		.....	*Pipa*	124.00
5 3/4	24	52	*Penta*	193.00		.....	*Pipe*	165.00
5 3/4	36	64	*Peon*	215.00		.....	*Piped*	186.50

NOTE: The above length stroke is for ball valve plunger. When spool valve plungers are used, length of stroke is increased 4 inches. When poppet valve plungers are used, length of stroke is increased 6 inches.

These cylinders are also furnished with lower cap, threaded for pipe to correspond to pipe used on ordinary cylinders. This is a special cap and must be specified for on order.

In ordering, give size of well pipe and length of stroke wanted.

General Directions for Setting Myers Working Barrels.

Attach strainer or well point to lower end of working barrel, remove both check valve and plunger from cylinder and **detach plunger from check valve.** Attach connecting or well pipe, (which must be same diameter as cylinder), to the cylinder and lower into the well the desired depth. Remove stuffing box cap in pump head and attach the pump head to connecting pipe; then screw **the check valve** tightly to plunger rod, lower into well, forcing check valve firmly into its seat in bottom of cylinder. Unscrew the pump rod from check valve and withdraw the rod; then attach pump rod permanently to the plunger, lower into cylinder and cut the pump rod to such length that on lower end of stroke the plunger will be at least 4 inches from the check valve, replace stuffing box cap on pump head.

To Remove Plunger and Check Valve disconnect piston rod, lower the plunger onto the check valve and screw it fast by turning pump rod to the right, then withdraw through pump head. Repair and replace as above.

The Myers All Brass Working Barrel.

With Inside Cap and Ball Valve.

Fig. 1504 illustrates the Myers All Brass Working Barrel. The barrel is made of heavy seamless drawn brass tubing with brass caps, fitted with ball valves.

These cylinders may be placed in open wells or drilled wells where the casing is large enough to take the cylinder attachments. They are adapted to work in the deepest wells

This cylinder is practically the same as Fig. 1404, the only difference being in the caps. The lower valve and plunger cannot be withdrawn through pipe.

Fig. 1504

Inside Diameter of Cylinder, Inches	Outside Diameter	Length Stroke, Inches	Length Barrel, Inches	Tapped	Size Pin in Plunger, Inches	CODE	List of Cylinder, Complete, as shown, Ball Valves
1 13/16	2¼	10	23	1¼	⅝	*Prelate*	$14.50
1 13/16	2¼	14	27	1¼	⅝	*Prelude*	15.00
1 13/16	2¼	24	37	1¼	⅝	*Premit*	17.00
1 13/16	2¼	36	49	1¼	⅝	*Present*	19.50
2¼	2½	10	24	1¼	⅞	*Press*	19.50
2¼	2½	14	28	1¼	⅞	*Presser*	20.75
2¼	2½	24	38	1¼	⅞	*Prest*	22.50
2¼	2½	36	50	1¼	⅞	*Preter*	24.50
2¾	3	10	26	1½	⅞	*Pretty*	27.00
2¾	3	14	30	1½	⅞	*Prete*	28.25
2¾	3	24	40	1½	⅞	*Prevent*	30.75
2¾	3	36	52	1½	⅞	*Prey*	34.00
3¼	3½	10	28	2	⅞	*Preyer*	34.75
3¼	3½	14	32	2	⅞	*Prial*	41.00
3¼	3½	24	42	2	⅞	*Prian*	44.00
3¼	3½	36	54	2	⅞	*Price*	47.75
3¾	4	10	28	2 or 2½	⅞	*Priced*	56.00
3¾	4	14	32	2 or 2½	⅞	*Prick*	58.00
3¾	4	24	42	2 or 2½	⅞	*Prickel*	61.75
3¾	4	36	54	2 or 2½	⅞	*Pricket*	66.00
4¼	4½	10	34	2½	1⅛	*Prickle*	68.75
4¼	4½	14	38	2½	1⅛	*Prive*	70.50
4¼	4½	24	48	2½	1⅛	*Prie*	79.50
4¼	4½	36	60	2½	1⅛	*Pried*	82.50
4¾	5	24	48	2½	1⅛	*Prier*	98.00
4¾	5	36	60	2½	1⅛	*Priest*	108.00
5¾	6	24	52	3	1⅛	*Prieve*	141.00
5¾	6	36	64	3	1⅛	*Prig*	156.00

The Myers Heavy Brass Body Cylinder.

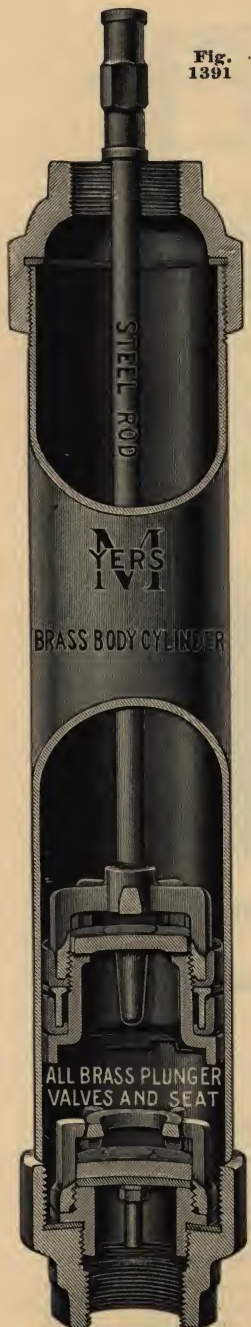


Fig. 1391

With all Brass Plunger, Valve and Valve Seat.

Two-Leather Plunger for Heavy Work.

Fig. 1391 illustrates the Myers Brass Body Cylinder as made for use with power working heads or heavy windmill work. The plunger is all brass, fitted with double leathers. The all brass check valve is screwed securely into the cylinder cap. The cage protecting the poppet check valve is screwed firmly on to the brass valve seat.

The plunger castings, valve seat and valves are extra heavy, making a complete and substantial job, well adapted to heavy or deep well work.

Extra charge for different Tapping.

Plunger as used in Fig. 1391 Cylinder.

PRICE LIST, Represented by Fig. 1391.

Inside Diameter, inches	Length of Cylinder, inches	Length of Stroke, inches	Capacity per Stroke, gallons	Tapped for Pipe, inches	Size Piston Rod	Code	Brass Body Iron Cap
2 ½	20	10	.21	1 ½	½	*Pariah*	$13.25
2 ½	24	14	.29	1 ½	½	*Parian*	14.50
2 ½	30	20	.42	1 ½	½	*Paries*	17.00
2 ½	36	26	.54	1 ½	½	*Paring*	18.75
3	20	10	.30	1 ½	½	*Paris*	15.75
3	24	14	.42	1 ½	½	*Parish*	17.00
3	30	20	.60	1 ½	½	*Park*	19.50
3	36	26	.78	1 ½	½	*Parker*	22.00
3 ½	20	10	.41	2	⅝	*Parle*	20.75
3 ½	24	14	.57	2	⅝	*Parley*	22.50
3 ½	30	20	.82	2	⅝	*Parlor*	27.00
3 ½	36	26	1.06	2	⅝	*Parody*	29.50
4	20	10	.54	2	⅝	*Parol*	27.50
4	24	14	.65	2	⅝	*Parole*	30.00
4	30	20	1.08	2	⅝	*Parotid*	33.75
4	36	26	1.38	2	⅝	*Parr*	37.50
5	20	10	.85	2 ½	⅝	*Parral*	44.50
5	24	14	1.19	2 ½	⅝	*Parrel*	48.75
5	30	20	1.70	2 ½	⅝	*Parrot*	55.75
5	36	26	2.21	2 ½	⅝	*Parry*	62.00
6	20	10	1.22	3	¾	*Parse*	61.25
6	24	14	1.71	3	¾	*Parsee*	67.00
6	30	20	2.44	3	¾	*Parser*	75.00
6	36	26	3.17	3	¾	*Parson*	83.75

Fig. 741

Tubular Well Cylinders and Valves.

EUREKA CYLINDER.

Recommended When Desired to Locate Cylinder Above Screen Point.

Directions for Setting the Cylinder.

When well is finished and ready for screen point, and you wish to locate the cylinder at the bottom of the pipe, on the end of screen point, screw the point to the lower end of cylinder, remove both valves, drop the seating tool into the slot at the bottom of cylinder, and give it a half turn. The upper end of seating tool is fitted for one inch pipe; screw this onto your drill rod or pipe, and lower the cylinder into the well. When the point has been crowded down to its place, turn the seating tool to the right; this expands the rubber packing at the bottom of the cylinder and makes the joint perfect between the cylinder and the pipe of the well; take out the seating tool and lower the valves with the pump rod.

If you wish to locate the cylinder above the screen point and separate from it, set the point in the usual way, attach the spring dog coupling to the end of the cylinder (this holds the cylinder to its place in the pipe), using the seating tool as described above, crowd it down in the pipe to a point where you wish to locate it, expand the rubber packing, lower the valves and the well is finished.

We advise using spring dog coupling in locating cylinder above the screen point.

Should it ever become necessary to remove the lower valve, detach pump rod from pump lever, drop piston valve on lower valve and screw together, and both can be removed at once; by using the seating tool the entire cylinder may be withdrawn from the pipe

PRICE LIST, Represented by Fig. 741.

Eureka Tubular Well Cylinders, complete, 2 inch; length, 21½ inch; 12 inch stroke. Price ..... (*Jacob*) .. **$6.00**

Eureka Tubular Well Cylinders, complete, 2½ inch; length, 22½ inch; 10 inch stroke. Price ..... (*Jadi*) .. **10.00**

Eureka Tubular Well Cylinders, complete, 3 inch; length, 25 inch; 12 inch stroke. Price ..... (*Jamb*) .. **13.75**

Fig. 1399

Fig. 1400

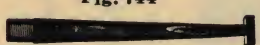
Valves for Eureka Cylinder.

Figs. 1399 and 1400.

Tubular Well Valves, complete set, 2 inch. Price..(*Jay*).. **$3.50**
Tubular Well Valves, complete set, 2½ inch. Price..(*Jar*).. **7.25**
Tubular Well Valves, complete set, 3 inch. Price..(*Jaw*).. **10.00**
Either the Bucket or Check Valve, one half the above list.

Seating Tool for Eureka Cylinder.

Fig. 744



For 2 inch cylinder. Price.....(*Jail*).. **$0.75**
For 2½ inch cylinder. Price.....(*Jab*).. **1.00**
For 3 inch cylinder. Price.....(*Jap*).. **1.25**

Fig. 743

Fig. 742

Special Valves.

To be Used in Rough Pipe without Cylinder.

Figs. 742 and 743.

These valves, furnished for pipe without cylinder, have two leather plungers.

Valves complete, 2 inch pipe. Price....(*Jetty*).. **$3.50**
Valves complete, 2½ inch pipe. Price....(*Jew*).. **7.25**
Valves complete, 3 inch pipe. Price...(*Jewess*).. **10.00**

MYERS HYDRO-PNEUMATIC PUMPS AND CYLINDERS

FOR HAND OR POWER

WATER SUPPLY

For Country Homes, Summer Resorts, Public and Private Institutions.

What is necessary for a good water supply system?
An air-tight tank and a reliable pump to supply air and water.

Who will install it?
This is not a difficult proposition. Any plumber or gas fitter will be glad to install your water supply system, or if you are a handy man with tools you can do it yourself.

Hand Pumps for Small Residences.

Electric Driven Pumps for City use.

Power Pumps for Large Residences, Factories, Mills, Apartments, Hotels, Villages, Green-Houses, etc.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

Water Supply Systems.

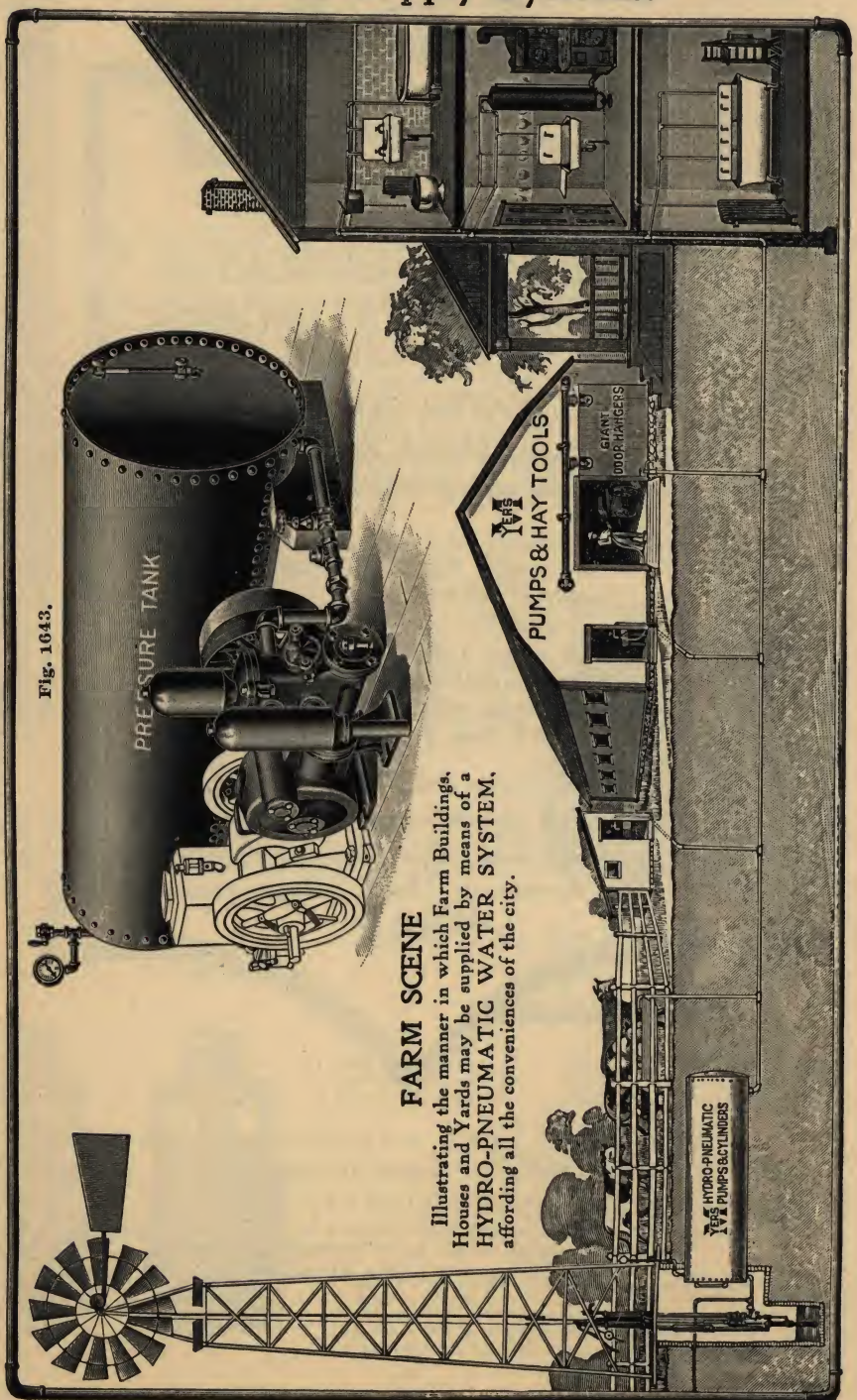


Fig. 1643.

FARM SCENE

Illustrating the manner in which Farm Buildings, Houses and Yards may be supplied by means of a HYDRO-PNEUMATIC WATER SYSTEM, affording all the conveniences of the city.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Pneumatic Water Supply Systems.

Remove the Greatest Handicap to Living in Suburban Districts, and Give the Village and Country Resident all the Advantages of His City Brother as to Water Supply Without the Excessive Cost.

With this system he can have an unlimited supply of pure, fresh water in the kitchen, laundry, bath room or barn, for sprinkling the lawn or garden, fire protection, watering stock, etc., at a very reasonable cost, the upkeep of which is practically nothing.

WHAT IS A PNEUMATIC WATER SYSTEM AND WHY DOES IT WORK?

It is very simple indeed: It consists of an air tight steel tank of the capacity required (350 gallons usual size for residences, and larger for other purposes) usually placed in the basement, or can be buried underground, and a hand or power pump suitable for pumping water and air, together with pipes and fittings necessary to install the job.

PRINCIPLE OF OPERATION.

Water is a solid and cannot be compressed. Air is elastic and can be compressed. Therefore, by pumping water and air into an air tight tank, the air being the lighter seeks the upper part of the tank, where it is compressed as the level of the water rises. When a faucet or outlet to the tank is opened in any part of the house or grounds the natural tendency of the compressed air to expand drives the water out of that particular opening. The water will be driven out with a force equal to 2⅓ ft. in elevation to every pound of pressure shown on pressure gauge on tank. For practical purposes say 2 ft. in elevation for each pound registered on gauge.

WHY IS ADDITIONAL AIR NECESSARY?

On account of the water absorbing the air, through which it escapes to the faucet. for this reason it is necessary to provide a means of replenishing this air which is wasted by absorption. The tank must be air tight—if it is not, failure will result in any system.

PURE WATER.

The air or water is forced into the bottom of the tank with the pump. The air passing through the water in the tank thoroughly aerates it, which is the best method known for purifying water. No one ever contracted a disease from using water from a pressure tank water system supplied by a Myers pump.

WHAT IS NECESSARY FOR A GOOD WATER SUPPLY SYSTEM?

An air tight tank and a reliable pump to supply air and water.

WHO WILL INSTALL IT? This is not a difficult proposition. Any plumber or gas fitter will be glad to install your water supply system, or if you are a handy man with tools you can do it yourself.

CAUTION: All pipe openings must be at or in the bottom of the tank. Use a pressure gauge to indicate the pressure carried. This can be placed anywhere, preferably in the discharge line near the tank. Place a water glass near the top of the tank to show the amount of air and water. **For best results** the pressure gauge should show the maximum pressure to be carried when tank is about ¾ full of water. Under these conditions the air in the tank will drive practically all of the water out through the faucets.

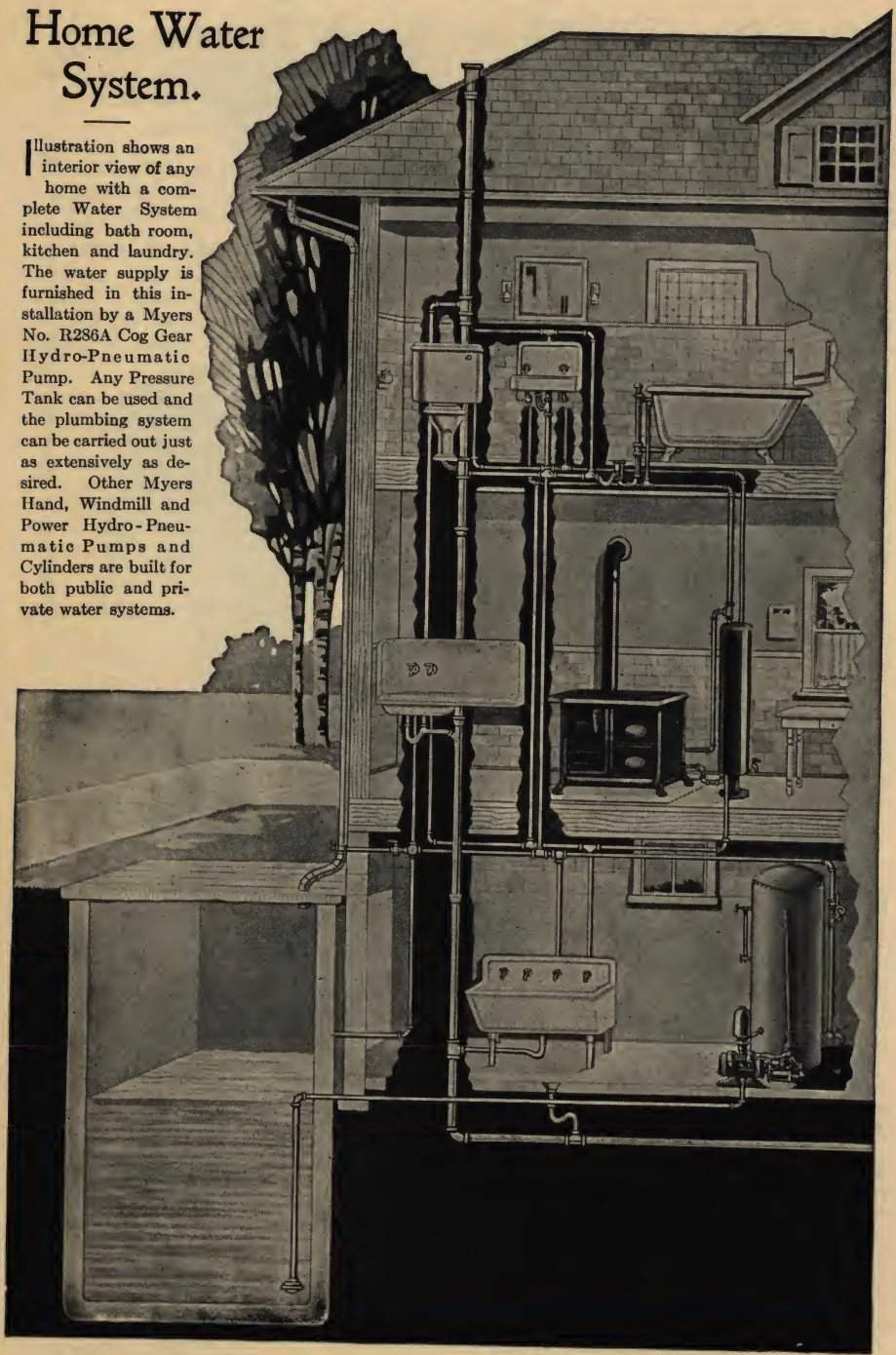
It is an easy matter to make a pump for ordinary purposes, but to make one that will meet the exacting requirements of a water supply system that must operate year after year with practically no attention is a different proposition. The Myers Hydro-Pneumatic Pumps and Cylinders, as shown in this catalog, were designed by us especially for this very purpose, and the fact that there are more of them in actual use and giving satisfaction than all others combined is proof that they are right. We manufacture a Hydro-Pneumatic pump for every purpose and condition. Our line covers pumps for hand use as well as the heaviest power made for shallow and deep wells, of capacities ranging from 85 gallons to 7,200 gallons per hour.

WE DO NOT MAKE TANKS, ENGINES OR MOTORS, but we do make the best Pumps and Cyinders for Hydro-Pneumatic work on the market.

GUARANTEE: We guarantee every pump and cylinder to be right when it leaves our factory, and to do the work for which it was designed when properly installed.

Home Water System.

Illustration shows an interior view of any home with a complete Water System including bath room, kitchen and laundry. The water supply is furnished in this installation by a Myers No. R286A Cog Gear Hydro-Pneumatic Pump. Any Pressure Tank can be used and the plumbing system can be carried out just as extensively as desired. Other Myers Hand, Windmill and Power Hydro-Pneumatic Pumps and Cylinders are built for both public and private water systems.



F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers New Model Cog Gear Hydro-Pneumatic Force Pump.

Double Acting.

PATENTED,

Equipped With Brass Valve Seats, Rubber Faced Valves and Brass Piston Rod.

The Cog Gear Movement under the same pressure will operate with 33⅓ per cent less power, or a 3 inch pump with the Cog Gear Movement, can be operated with the same power required by a 2½ inch cylinder pump with an ordinary lever equipment.

Forcing the air into the tank through the discharge line with the water aerates the water in the tank, keeping it pure and sweet

Fig. 1907

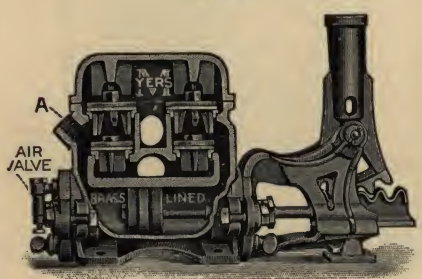
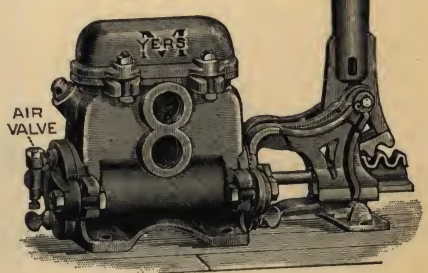


Fig. 1906



Figs. 1906 and 1907 illustrate The Myers New Model Cog Gear Hydro-Pneumatic Force Pump as built for forcing air and water into a pressure tank. The pump is fitted with brass lined cylinder, brass valve seats, and rubber faced valves. The discharge valves are 2 inches in diameter, with a suction valve 1½ inches, located immediately below the discharge valve. The suction valve is removed through the discharge valve opening. All four of the valves are reached by removing the air dome, which is located directly over them, and without disturbing either the suction or discharge pipe. The piston is ⅞ inch solid brass rod with heavy brass stuffing nut. The pump, when necessary, can be primed by removing the plug at A, through which opening water can be poured direct into the cylinder. The cylinder heads and air dome are attached to the pump by means of through machine bolts, and can be entirely dismantled with an ordinary wrench. The suction and discharge pipes are 1¼ inch, attached to either side of the pump. The cog gear handle reduces the power required to operate the pump 33⅓ per cent.

The air valve is attached directly to the cylinder head, through which air is admitted direct to the body of the pump, and forced into the pressure tank through the regular water line, doing away with all independent piping. The only thing necessary to pump air with the Myers New Model Pump is to open the needle point by means of the thumb nut on air valve. After sufficient air is pumped into the tank the above action is reversed, which shuts off the air.

The pump is thoroughly well made in every respect, and is of such strength as to stand the rough usage to which this class of goods is generally subjected.

NOTE: Immediately underneath the cog gear handle bracket we use a wedge shaped flange, which connects to a flange plate located on the floor, forming a complete support against any strain from pumping. This flange adjusts itself to the pump by sliding forward or backward.

PRICE LIST, Represented by Fig. 1906.

No. R288A, Myers New Model Cog Gear Hydro-Pneumatic Force Pump, as illustrated under Fig. 1906, 3x4½" brass lined cylinder, with 1¼" suction and discharge.

Price.....(*Thrill*).. **$14.00**

Scene Illustrating the Myers Hydro-Pneumatic Hand Pump.

Fig. 1645

Additional air must be supplied to the tank or it will become water-logged.

There is a great demand for pumps adapted to filling high pressure tanks as used in private water works systems for town and farm residences. The illustration represents a Pressure Tank and New Model Pump, which are placed in the basement of the building. The pump is piped to the cistern or spring. The discharge pipe is connected direct to the tank, using valves on the pipe between the pump and the tank to retain the pressure in the latter.

The tank should be supplied with a pressure gauge that will register 100 pounds. The water is pumped directly into the tank. This compresses the air, which in turn serves as a reserve power to drive the water to any part of the building through the pipes placed for that purpose.

These pipes should be fitted with faucets located at the sink, wash stand, bath tub, etc., through which water can be drawn at the convenience of the user. The tank should be resupplied, whenever necessary, by means of the pump.

If the system is used under an ordinary pressure by hand, of say 25 to 60 pounds, in that case Fig. 1906 is a practical pump for the purpose. This pump is brass fitted throughout, having brass lined cylinder, brass valve seats, piston rod, etc., and is especially adapted for this use. Has air compressor connected to pump.

For deep wells use Hydro-Cylinder, Fig. 1539, with any Force Pump Head.

We do not furnish the tank, but build the pumps especially designed for the above purpose. This system of supplying water is more economical and convenient than using a windmill or gasoline engine and pumping into an elevated tank.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Interior View of a Modern Home where Electricity is Used for Lighting and Power with a Myers Electric House Pump Installed in the Basement.

Of all the methods of obtaining water for the home, this one requires the least of attention and is economical and highly satisfactory.

A Myers Electric House Pump can be operated by any current either from city service wires or from private power and lighting plants. It is automatically controlled, self-oiling, working parts are covered, and the capacity is 180 gallons per hour.

Convenient, Quiet, Safe, Sure, it is easily installed and will furnish an abundant water supply for any home.

The Myers Electric House Pump.

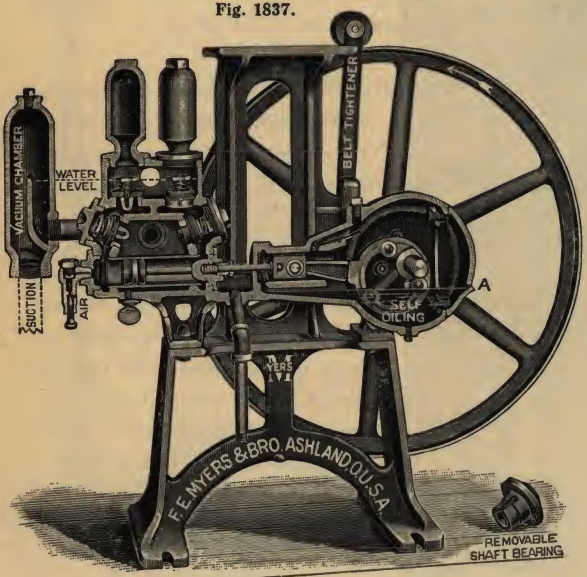
SELF-OILING.

Motor Driven—Automatically Controlled—Economical—Efficient.

Designed for Operation from Any Kind of City Current or from Farm Lighting and Power Systems.

Capacity 180 Gallons Per Hour.

Fig. 1837.



The Myers Electric House Pump is designed for pumping water from shallow wells, cisterns, springs, lakes and other sources, and forcing it into pneumatic pressure tanks or open gravity tanks for water supply for private residences, public buildings, etc. These pumps have been carefully designed for this service. A simple power transmission with few working parts; is fully enclosed, runs in oil, which, with a water end having ample and direct waterways and large valves results in high efficiency and large pumping capacity with low current cost.

SPECIFICATIONS

The base is a one piece iron pedestal with machined pads for pump and motor making a mounting for the entire equipment and insuring perfect belt alignment.

The pump is double acting and has a capacity of 180 gallons per hour.

The cylinder is brass lined, 1¼ inches in diameter. Stroke is 2 inches.

The piston is leather packed and operated by a brass piston rod.

The valves are rubber on brass seats of the grid pattern and are held in position by brass studs fitted with springs for quick closing. Each valve is located in its own valve box and may be reached by removing the cap immediately over it without disturbing any other connections or fittings.

Air chambers are placed over the discharge valves eliminating water hammer, a combined vacuum chamber and priming reservoir steady the flow of water and insure priming. A relief valve is provided to protect the pump and motor from excessive pressure.

The power end of the pump has a ⅞ inch diameter pulley shaft which runs in long, easily renewable bearings located in opposite sides of the eccentric which operates the connecting rod. The connecting rod is bronze and adjustable for wear. The crosshead is bronze and runs in a bored guide.

All working parts are automatically lubricated by oil splash from the crank case except the idler pulley which has a self-lubricating bushing.

Motor equipment is a 1-6 H. P. high duty, heavy starting torque motor fitted with a flanged drive pulley, flat endless moisture proof belt and spring belt tightener.

An automatic pressure controller is supplied with pneumatic tank outfits by means of which the tank pressure is controlled automatically. Controllers are regularly set for a minimum pressure of 20 lbs. and a maximum of 40 lbs. Other regulations can be supplied on special order.

An air valve in the end of the cylinder supplies air for pneumatic tank system.

The oil level overflow is an opening showing quantity of oil to put in—Fill Gear Case until oil shows at oil opening. Replenish occasionally.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

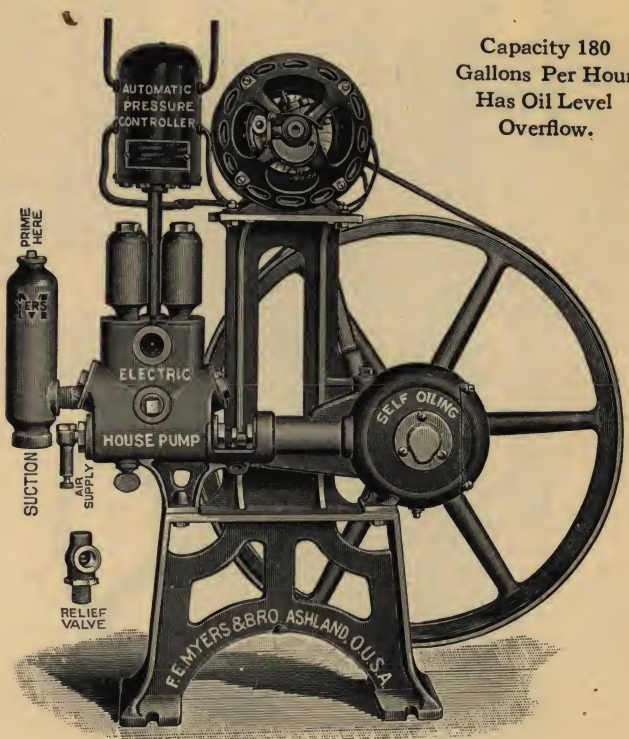
The Myers Electric House Pump.

SELF-OILING

Motor Driven—Automatically Controlled—Economical—Efficient.

Designed for Operation from Any Kind of City Current or from Farm Lighting and Power Systems.

Fig. 1822.



Capacity 180 Gallons Per Hour. Has Oil Level Overflow.

PRICE LIST, Represented by Fig. 1822.

FOR PRESSURE TANK SYSTEMS

No. 600A, Myers Electric House Pump, with Vacuum Chamber, Relief Valve, Air Valve, Pressure Controller, Endless Belt and 1-6 H. P., 110 Volt, 60 Cycle, Single Phase A. C. Motor or 110 Volt D. C., or 32 Volt D. C. Motor. Price.....(*Tenon*) **$100.00**

No. 602A, Same Outfit as 600A *except without motor or belt*.....(*Tense*).. **57.50**

Belt only **3.75**

FOR OPEN TANK SYSTEM

No. 605, Myers Electric House Pump, Vacuum Chamber, Relief Valve, Endless Belt and 1-6 H. P., 110 Volt, 60 Cycle, Single Phase Motor or 110 Volt D. C., or 32 Volt D. C. Motor. Price.....(*Tensor*).. **87.50**

Specify current used. If A. C. give phase frequency and voltage. If D. C. give voltage.

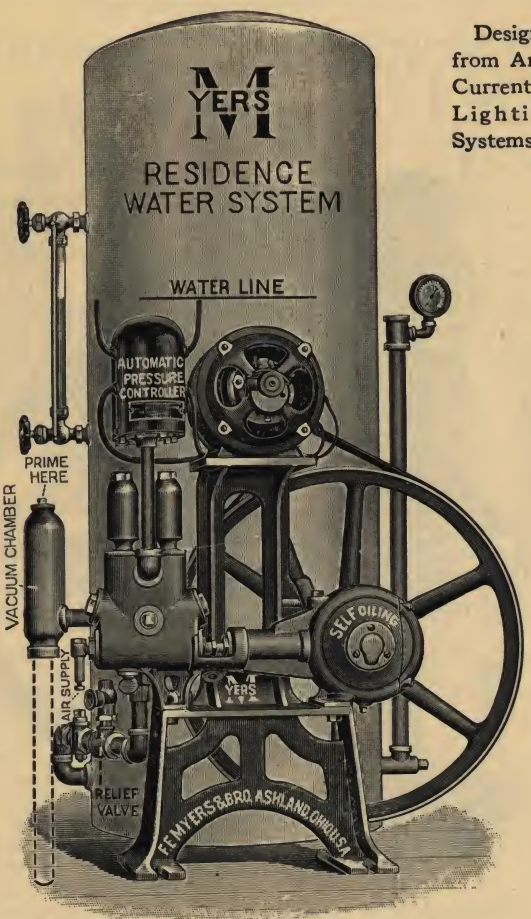
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Electric House Pump.

SELF-OILING.

Motor Driven—Automatically Controlled—Economical—Efficient.

Fig. 1823.



Designed for Operation from Any Kind of City Current or from Farm Lighting and Power Systems.

Capacity 180 Gallons Per Hour. Has Oil Level Overflow.

The Myers Electric House Pump can be operated by any electric current or from the Farm Lighting and Power Systems. The motor equipment is 1-6 H. P. Operation is automatically controlled by the use of the Automatic Pressure Controller as shown in Fig. 1823. This appeals to users generally as it saves electricity, wear and tear on the pump itself, and saves time and labor in starting and stopping when water or pressure becomes low.

Self Oiling—All working parts are automatically lubricated by oil splash from the crank case except the idler pulley which has a self-lubricating bushing—this eliminates frequent usage of a dirty oil can.

PRICE LIST, Represented by Fig. 1823.

No. 600AT, Myers Electric House Pump, with Vacuum Chamber, Relief Valve, Air Valve, Pressure Controller, Endless Belt and 1-6 H. P., 110 Volt, 60 Cycle, Single Phase A. C. Motor or 110 Volt D. C., or 32 Volt D. C. Motor with 40 gallon Galvanized Tank, Water Gauge, Pressure Gauge and Connecting Fittings. Price ..... (*Tenor*) **$157.50**

Specify current used. If A. C. give phase frequency and voltage. If D. C. give voltage.

If frequency and voltage are other than specified above on Motors, there will be an extra charge.

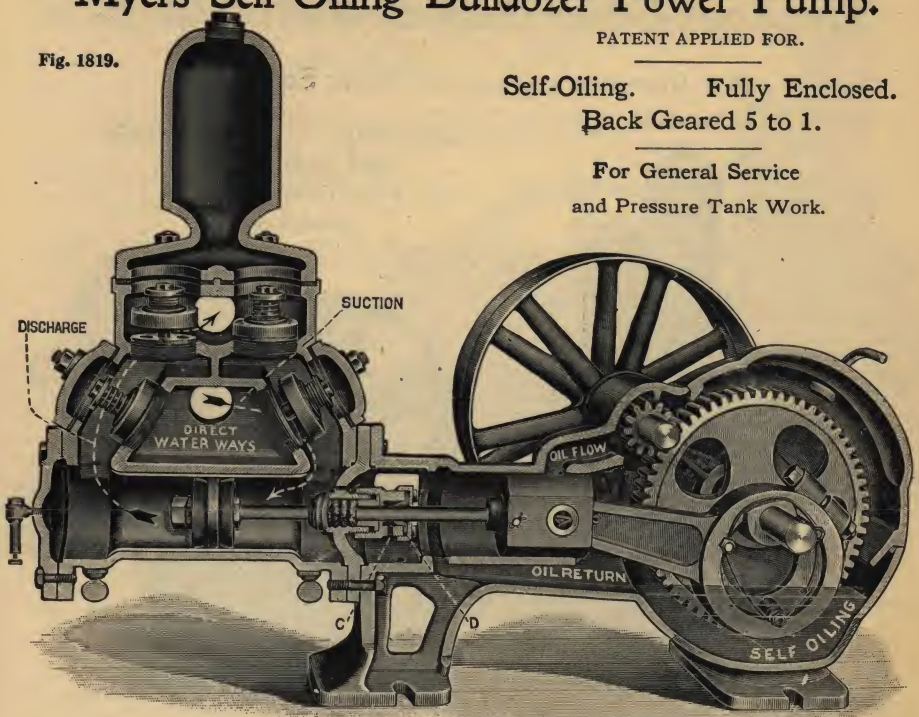
F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Bulldozer Power Pump.

PATENT APPLIED FOR.

Fig. 1819.



Self-Oiling. Fully Enclosed.
Back Geared 5 to 1.

For General Service
and Pressure Tank Work.

Fig. 1819, The Myers Self-Oiling Bulldozer Power Pump, is a single cylinder, double-acting power pump for general service on Farms, Plantations, Country Estates, in Apartment Houses, Hotels, Mills, Factories, Railways, Tanks, Stations, or wherever from 500 to 4500 gallons of water per hour are required against 100 lbs. pressure or 225 ft. elevation. This design has been brought out to meet the general needs of the trade for an efficient, durable pump of modern construction at a moderate price.

The power end consists of a one-piece casting which forms the base of the pump and oil reservoir, and in connection with a lid encloses all working parts, protecting them from dirt or injury, and securing safety of operation. This casting is completely machined at one setting for all bearings, the crosshead and cylinder head, insuring alignment of all working parts. The pinion and gear are mounted between double bearings—these bearings are renewable. The bearing shafts are of high grade machinery steel. Both gear and pinion are machine cut from the solid; the gear is cast iron and the pinion steel. An eccentric cast integral with the main gear operates the crosshead through a connecting rod which is adjustable for wear at the eccentric end, and is fitted with a renewable bronze bushing at the crosshead end. The crosshead is of large diameter and runs in a bored guide. From an oil reservoir in the base oil is carried by the main gear to the highest parts of the pump and by a system of channels distributed to all moving parts and returned again to the reservoir. This system of flood lubrication contributes quiet operation and long life, with a minimum of attention.

The cylinder, which is brass-lined, is a one-piece casting, attached to the power end by heavy bolts. Large rubber valves on bronze grid seats are all located above the cylinder insuring priming. Suction and discharge valves are easily accessible for inspection or repair without disturbing pipe connections. The piston is packed with double cup leathers supported by heavy castings. Suction and discharge piping may be taken from either side.

As compared with older designs this pump has larger valves, more liberal waterways and a positive oiling system enabling it to be operated against a heavy pressure or at high speed, securing large volume and high efficiency. Ample strength, few parts and high grade construction make it an exceptionally durable and economical pump.

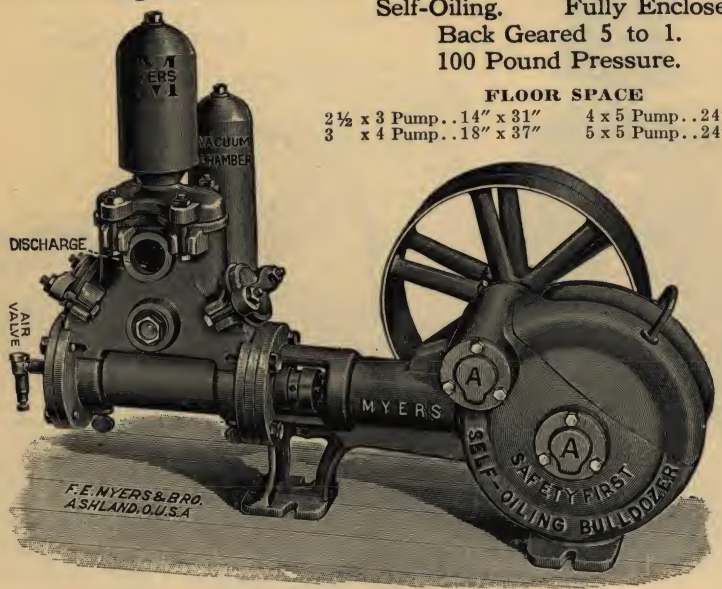
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Bulldozer Power Pump.

PATENT APPLIED FOR.

For Pneumatic Pressure Tank Service.

Fig. 1860



Self-Oiling. Fully Enclosed.
Back Geared 5 to 1.
100 Pound Pressure.

FLOOR SPACE

2½ x 3 Pump..14″ x 31″	4 x 5 Pump..24″ x 46½″
3 x 4 Pump..18″ x 37″	5 x 5 Pump..24″ x 48″

PRICE LIST, Represented by Fig. 1860.

MAXIMUM CAPACITY 500 GALLONS PER HOUR AT 70 RPM.
USUAL SPEED 60 TO 65 RPM.

No. 612A, Myers Self-Oiling Bulldozer Power Pump, with Air Intake Valve for Pneumatic Pressure Tank Service **With** Vacuum Chamber, 2½x3″ Brass Lined Cylinder, 12x2″ Tight and Loose Pulleys, ½″ Brass Piston Rod, Suction and Discharge 1¼″. List .....(*Tern*)..**$55.00**

MAXIMUM CAPACITY 1000 GALLONS PER HOUR AT 70 RPM.
USUAL SPEED 55 TO 60 RPM.

No. 613A, Myers Self-Oiling Bulldozer Power Pump, with Air Intake Valve for Pneumatic Pressure Tank Service **With** Vacuum Chamber, 3x4″ Brass Lined Cylinder, 14x2½″ Tight and Loose Pulleys, ⅝″ Brass Piston Rod, Suction and Discharge 1½″. List .....(*Term*).. **$82.00**

MAXIMUM CAPACITY 2000 GALLONS PER HOUR AT 65 RPM.
USUAL SPEED 50 TO 55 RPM.

No. 614A, Myers Self-Oiling Bulldozer Power Pump, with Air Intake Valve for Pneumatic Pressure Tank Service **With** Vacuum Chamber, 4x5″ Brass Lined Cylinder, 16x4″ Tight and Loose Pulleys, 1⅛″ Brass Covered Piston Rod, Suction and Discharge 2″. List .....(*Termal*)..**$107.00**

MAXIMUM CAPACITY 3000 GALLONS PER HOUR AT 60 RPM.
USUAL SPEED 45 TO 50 RPM.

No. 615A, Myers Self-Oiling Bulldozer Power Pump, with Air Intake Valve for Pneumatic Pressure Tank Service **With** Vacuum Chamber, 5x5″ Brass Lined Cylinder, 16x4″ Tight and Loose Pulleys, 1⅛″ Brass Covered Piston Rod, Suction and Discharge 2½″. List.....(*Termer*)..**$122.00**

MAXIMUM CAPACITY 4500 GALLONS PER HOUR AT 52 RPM.
USUAL SPEED 40 TO 45 RPM.

No. 616A, Myers Self-Oiling Bulldozer Power Pump, with Air Intake Valve for Pneumatic Pressure Tank Service **With** Vacuum Chamber, 6x6″ Brass Lined Cylinder, 24x4″ Tight and Loose Pulleys, Suction and Discharge 3″. List.....(*Thrash*)..**$192.00**

Myers Self-Oiling Bulldozer Power Pump.

Motor Drive for Pressure Tank Work.

Back Geared 5 to 1. Self-Oiling
For General Service.

Fig. 1850

Fig. 1850 illustrates the Myers Self-Oiling Pneumatic Bulldozer Power Pump with vacuum chamber and belt tightener connected to motor and mounted on plank.

PRICE LIST.

MOTOR, BELT AND PLANK BASE NOT INCLUDED.
PRICES ON MOTOR AND BELT ON APPLICATION.

No. 612AM,	2½x3″ Pump, 15x2″ Pulley, belt tightener and air valve	(*Termor*)..	**$ 60.00**
No. 613AM,	3x4″ Pump, 20x3″ Pulley, belt tightener and air valve	(*Terce*)..	**89.00**
No. 614AM,	4x5″ Pump, 25x4″ Pulley, belt tightener and air valve	(*Tereka*)..	**117.00**
No. 615AM,	5x5″ Pump, 24x4″ Pulley, belt tightener and air valve	(*Terete*)..	**132.00**
No. 616AM,	6x6″ Pump, 24x4″ Pulley, belt tightener and air valve. List	(*Thread*)..	**204.00**

For Plank Base add to the above lists as follows:

Base for No. 612AM..	**$5.00**	Base for No. 615AM..	**$10.00**
Base for No. 613AM..	**6.25**	Base for No. 616AM..	**12.50**
Base for No. 614AM..	**10.00**		

For Belt add to the above lists as follows:

Belt for No. 612AM..	**$5.50**	Belt for No. 615AM..	**$10.00**
Belt for No. 613AM..	**6.25**	Belt for No. 616AM..	**12.50**
Belt for No. 614AM..	**10.00**		

Fig 1854

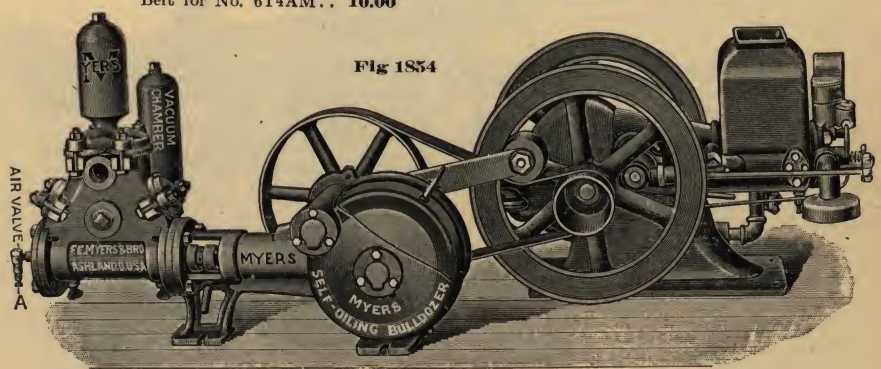


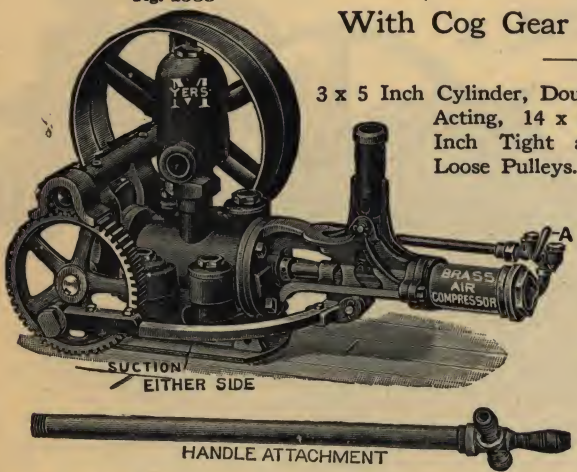
Fig. 1854 illustrates the Myers Self-Oiling Pneumatic Bulldozer Power Pump with belt tightener as used with gas engine. The belt tightener can be used on either side of pump pulley. Note small space required.

The Myers Century Hydro-Pneumatic Power Pump

PATENTED.

Fig. 1588

With Cog Gear Handle Attachment.



3 x 5 Inch Cylinder, Double Acting, 14 x 2½ Inch Tight and Loose Pulleys.

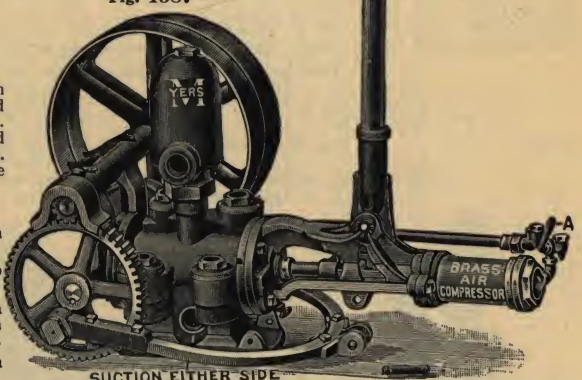
Machine Cut Gear. Back Geared 4½ to 1.

Floor Space 24 x 36.

Good For 50 lbs. Working Pressure.

Figs. 1587 and 1588 illustrate the Myers Century Hydro-Pneumatic Power Pump which is designed especially for use with Gasoline Engines for supplying water and air to pressure tank systems. It is complete within itself, adapted for both Hand and Power use.

Fig. 1587



SPECIFICATIONS.

THE CYLINDER is 3 inches in diameter and 5 inches in length, lined with Seamless Drawn Brass Tubing.

THE VALVES are metal faced with rubber with Brass Valve Seats. Each valve is located under separate cap.

THE GEARS are machine cut.

THE PISTON ROD is drawn steel, brass covered.

THE PLUNGER is Double Cup Leather.

THE SUCTION can be taken from either side—is tapped for 1¼ inch pipe. Discharge can be set at any angle.

THE PULLEYS are 14 inches in diameter, 2½ inch face.

THE AIR COMPRESSOR is made of Seamless Drawn Brass Tubing, mounted directly on the end of the Pump and piped back into the Pump above the Discharge Valve.

It is fitted with an intake valve that controls the admission of the air and is adjusted to admit the air or cut it out by simply moving lever (A) forward or backward as far as possible.

THE AIR COMPRESSOR is the same as that used on the Myers Bulldozer Pumps which have been in operation for years, and is thoroughly satisfactory in every respect.

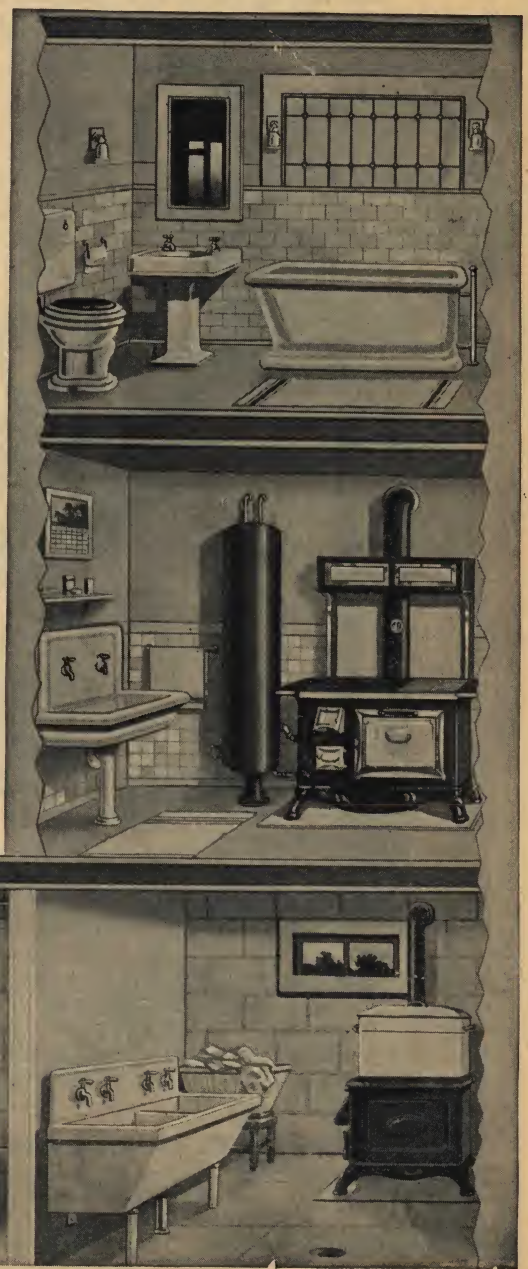
When wanted to use as a hand pump all that is necessary is to remove the pin connecting the side arms to the piston, then by placing the handle in the socket the pump is ready for operation by hand. This feature will be appreciated, as parties quite frequently do not care to start their engine when a small quantity of water only is required.

PRICE LIST, Represented by Figs. 1587 and 1588.

No. 377A, Pump complete as shown in cut, 3 x 5 inch cylinder, with 14 x 2½ inch tight and loose belt pulleys. Price..... (*Prompt*).. **$50.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Scene Illustrating a Home Water System Utilizing a Myers Bulldozer Hydro-Pneumatic Power Pump, a Pressure Tank, and a Gasoline Engine to Furnish the Motive Power.



This equipment is adapted for both public and private buildings where an individual water supply is sometimes desirable and often necessary.

Easily installed, inexpensive to operate, occupies small space, requires but little attention, this equipment gives all the advantages of city water service by furnishing plenty of water for every purpose.

Myers Hydro-Pneumatic Pumps and Cylinders come in many styles and sizes for operation by any power and for installation in any home or public building.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Deep Well Working Head.

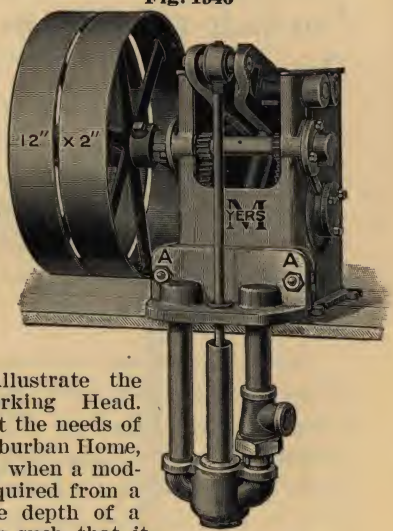
All Moving Parts Enclosed. Machine Cut Gear.
Back Geared 7 to 1. 6 Inch Stroke.

Fig. 1945

Power Required, ½ H. P. Motor or 1 H. P. Gas Engine.

For Pressure Tank Work.

Fig. 1946



Figures 1945 and 1946 illustrate the Myers Self-Oiling Working Head. This head is designed to meet the needs of the Farm, Country Estate, Suburban Home, Small Apartment House, etc., when a moderate amount of water is required from a source of supply beyond the depth of a Suction Pump. The size is such that it may be successfully operated by a one-half horse power electric motor or a one horse power gas engine.

With a view of securing safety in operation and long life and economy with a minimum of attention, all working parts are fully enclosed and run in oil. The main frame, which carries all the bearings also forms an oil reservoir. From this reservoir the gears distribute oil to all moving parts. Bearing shafts are high grade machinery steel, bearings are removable, and gears and pinions are machine cut from the solid.

Regularly fitted with 4 foot anti-freezing set length and 1¼ inch plunger tube. Tight and loose pulleys for gas engine drive. Single pulley and belt tightener for electric drive. Back-geared seven to one. Six inch stroke.

The 4 foot anti-freezing set length is securely bolted to the Pump Head fitting on a machined face with supporting shoulder insuring perfect alignment. By removing the two bolts marked "A" the set length is removed for installation. To be used with 1¾ in. or 2½ in. lower Cylinder.

Fig. 1946 illustrates the same Pump with the Gear cover removed, also the Set-length shortened up to permit its use on Tubular Wells where the Well Casing comes near the surface of the ground.

PRICE LIST, Represented by Fig. 1945.

No. 650, The Myers Self-Oiling Working Head complete as shown in Fig. 1945. Price ..... *(Tilt)*.. **$50.00**
Fig. 214—1¾ in. x 14 in. all Brass Cylinder **8.25**
Fig. 214—2½ in. x 14 in. Brass Body Cylinder with 869 Plunger **7.75**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Vertical Power Hydro-Pneumatic Pump.

With Water Cooled Air Compressor.

Fig. 1855

PATENTED.

HAS BEEN REBUILT AND STRENGTH INCREASED 50%.

For Pressure Tank Deep Well Work.

Double Discharge.

Back Geared 5 to 1.

With Machine Cut Gear.

Pinion Shaft Box Brass Bushed at Each End.

For Deep Wells.

The air can be admitted or cut out by turning Lever B.

The special advantage of this style pump over an independent Air Compressor is that it admits just enough air at all times to keep Pressure Tank in proper working condition, whereas—when separate Air Compressor is used—it is often overlooked until Tank becomes water-logged.

Fig. 1855 illustrates the Myers Vertical Power Hydro-Pneumatic Pump for use in deep wells. It is fitted with machine cut gear and double guide rod, is double acting, fitted with tight and loose pulleys, has brass cylinder and glass valve seat, and is designed especially to be used in connection with pressure tank systems.

CONSTRUCTION: The Pump is double acting. The air cylinder is a seamless drawn brass tube connected direct to the under side of the upper cap. This air cylinder is fitted with a solid double cup plunger, one leather facing in each direction. This plunger is attached to the main piston rod and operates with same, as follows:

On the downward movement of the air plunger the air is taken in through the brass air valve; then on the upward movement of the plunger this air is discharged through another valve in the head of the pump, and returned direct into the main body of the pump and into the discharge line with the water from the water cylinder, from which point it is conveyed to the tank in the water line, thus doing away entirely with all outside connections or separate piping. Further, the lower end of this air cylinder operates in connection with the water cylinder, making the pump double acting in discharge and giving a steady and even flow. This construction divides the stream and delivers one-half of the water on the up stroke and one-half on the down stroke of the plunger, thus reducing the power required to operate it, and distributes the power evenly, eliminating the disadvantages of a single acting pump.

PRICE LIST, Represented by Fig. 1855.

5 inch Stroke. Capacity, 360 gallons per hour at 40 strokes per minute.

No. 379A, Myers Vertical Power Hydro-Pneumatic Pump for deep well work. Base is tapped for 3 inch pipe and bushed to 1½ inch Furnished complete with Fig. 215, 3 x 12 inch brass body cylinder with Fig. 869 plunger, (pipe and rod not included). Price each... (*Pecan*). **$60.00**

No. 379A, can also be used with 3 inch or less Tubular Cylinder.

USE PUMP No. 612A FOR SHALLOW WELLS.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Vertical Hydro-Pneumatic Pump.

With Water Cooled Air Compressor.

PATENTED.

Mounted on Base for Motor.

FOR DEEP WELLS.

For Pressure Tank Work.

Fig. 1856

Double Discharge. Back Geared 5 to 1. With Machine Cut Gear. Gear Box split and babbitted. Pinion Shaft Box brass bushed at each end.

The air can be admitted or cut out by moving Lever A.

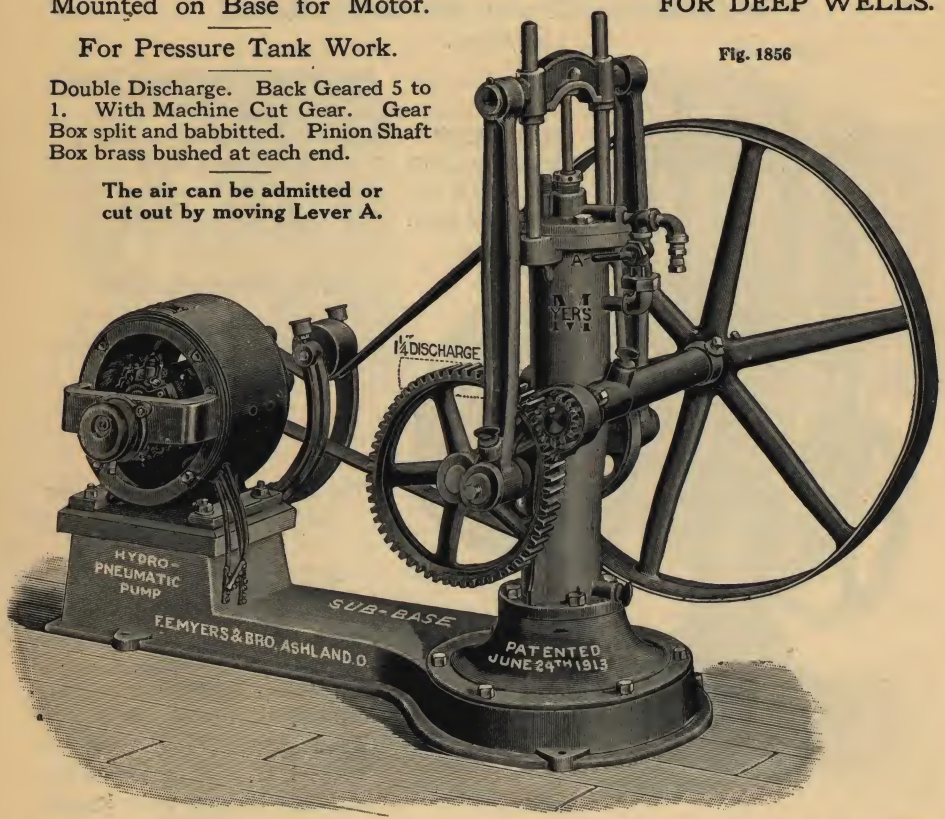


Fig. 1856 illustrates the Myers Vertical Power Hydro-Pneumatic Pump for use in deep wells. It is double acting, fitted with machine cut gears and double guide rod. Has 24 inch pulley, brass lined cylinder and glass valve seat. The cast iron base is fitted with raised part for motor, and has wood plank to which any ½ H. P. motor can be attached by lag screws. Top of Motor Base is 7 inches above floor.

CONSTRUCTION: The Pump is double acting. The air cylinder is a seamless drawn brass tube connected direct to the under side of the upper cap, and is fitted with a solid double cup plunger, one leather facing in each direction. This plunger is attached to the main piston rod and operates with same, as follows:

On the downward movement of the plunger air is taken in through the brass air valve; then on the upward movement this air is discharged through another valve in the head of the pump, and returned direct into the main body of the pump and into the discharge line. Further, the lower end of this cylinder operates in connection with the water cylinder, making the pump double acting in discharge and giving a steady flow.

PRICE LIST, Without Motor.

5 in. Stroke. Capacity, 360 gallons per hour at 40 strokes per minute.

No. 379AB, Myers Vertical Power Hydro-Pneumatic Pump for deep well work. Base is tapped for 3 inch pipe and bushed to 1½ inch. Furnished complete with Fig. 215, 3 x 12 inch brass body cylinder and base for motor, (pipe and rod not included.) Price...(*Tangle*).. **$79.00**

Automatic Electric Cut-out Switch.....(*Tanist*).. **25.00**

Belt.....(*Tank*).. **6.25**

WITH MOTOR

No. 379ABM, Myers Vertical Power Hydro-Pneumatic Pump for deep wells, with base, 3 x 12 inch brass body cylinder, and ½ H. P. Motor, either A. C. 110 or 220 volt, 60 cycle single phase or D. C. 110 volt. Price.....(*Taper*).. **192.00**

If D. C. 220 volt motor is wanted on No. 379ABM, add to list .....(*Tansy*).. **3.00**

Automatic Electric Cut-out Switch.....(*Tanist*).. **25.00**

The Pump can also be used on 3 inch Tubular Wells.

USE PUMP No. 612A FOR SHALLOW WELLS.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Defiance Working Head.

With Air Compressor.

PATENTED.

With Malleable Iron Head.

Machine Cut Gear and Cock Spout. Back Outlet Tapped for 1½ Inch Pipe.
Back Geared 6 to 1. 6 and 9 Inch Stroke.

Fig. 1711

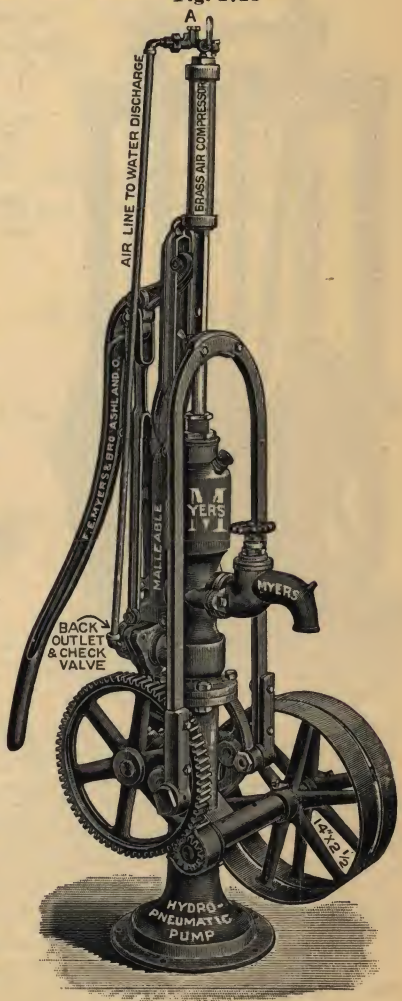


Fig. 1711 represents the Myers Defiance Working Head. The outfit is complete within itself; all mounted on one base, making it easy to set and connect up. It is adaptable to belt, hand or windmill power.

SPECIFICATIONS.

The gears are machine cut, with 1 3/8 inch face; back geared 6 to 1. Gear shaft 1¼ inch; belt shaft 1⅛ inch; gear shaft box split and babbitted; wrist pin 1¼ inch in diameter, stud pattern screwed into the gear wheel and held by lock nut; stroke is 6 and 9 inches; pulleys 14 inches in diameter; piston rod 1⅛ inch, side arm ⅝ x 1 inch hard steel. **Pump Rod Connection ⅝ x ⅜ inch Rod.**

AIR COMPRESSOR.

The Air Compressor is made by mounting a Seamless Brass Cylinder on top of working head and connecting it direct to discharge line. Size of air compressor 1¾ x 9 inches. It is controlled by lever (a)—by setting lever "a" horizontally it pumps air, by setting it perpendicularly the air is discontinued.

Discharge outlet is fitted with check valve, beyond which the air is admitted to discharge line.

PRICE LIST, Represented by Fig. 1711.

No. 388A, The Myers Defiance Working Head, as represented by Fig. 1711, with Air Compressor. Price ..... *(Tamper)* .. **$44.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Bulldozer Power Working Head with Water Cooled Air Compressor.

PATENTED.

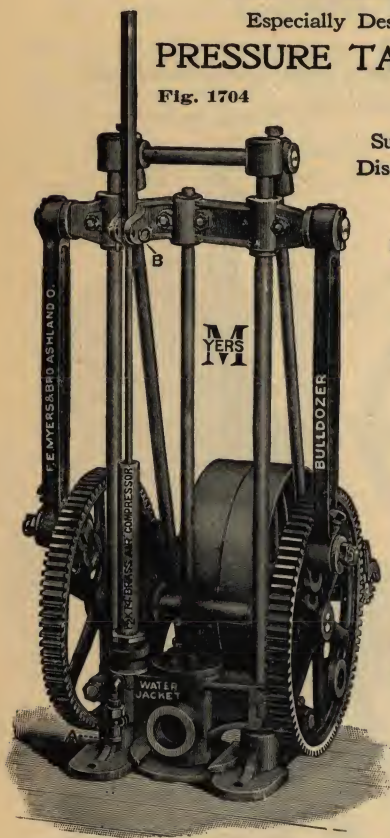
Machine Cut Gear. Back Geared 7 to 1.

Has 14 Inch Stroke.

Especially Designed For

PRESSURE TANK WORK

Fig. 1704



Suction Pipe 3 in.
Discharge Pipe 2 in.

Floor Space
22 x 26½
Inches

Pump Rod
⅝ Inch
Pin Thread

Fig. 1666

Figs. 1704 and 1666 represent the Myers Bulldozer Power Working Head, especially designed for small size tubular wells where a long stroke is required. Its construction insures great lifting power and capacity for the weight of the head. The arrangement is such that the power is applied direct to the piston from the two gear wheels, one located on each side of the main stand. By this construction we do away with side motion and wear and have a direct lift on the upstroke.

The well pipe is carried direct on the pump head, which is securely bolted to the upright steel guides. Plungers up to 3 inches in diameter can be withdrawn through the top of the pump without even removing the belt. The piston rod is connected direct to the split crosshead, which can be taken off by removing four bolts.

The height of the stand is 42 inches; the width 22 inches, and length 26½ inches.

Has tight and loose pulleys, 16 inches x 3 inches. Boxes are split and babbitted.

AIR COMPRESSOR. 1½ x 14 inches. Lower end is surrounded with water for cooling. Air is taken in on upward stroke and discharged on down stroke direct into water line leading to tank. Air is discontinued by removing pin B and placing in outer hole. This permits air compressor to stand idle.

Fig. 1666 shows head dismantled for withdrawing plunger—monkey wrench only tool needed.

PRICE LIST, Represented by Fig. 1704.

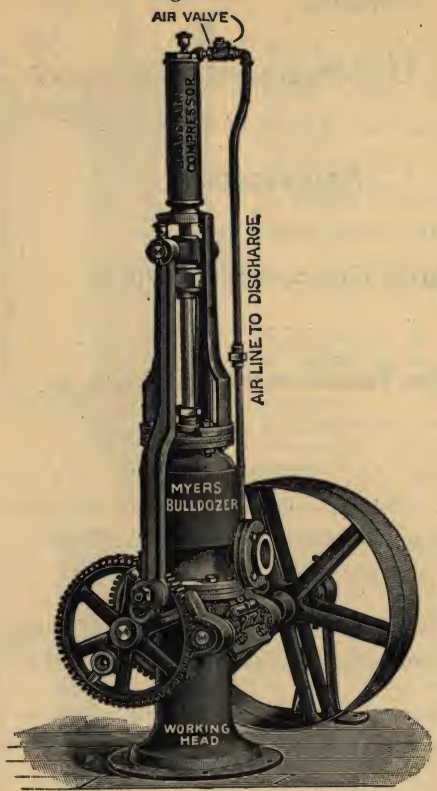
No. 391A, Myers Bulldozer Power Working Head, with 14 inch stroke, 16 inch x 3 inch tight and loose pulleys, suction pipe tapped for 3 inches, can be bushed to smaller size. List ..... (*Tamine*).. **$88.00**

No. 392A, Myers Bulldozer Power Working Head, similar to Fig. 1704, back geared 7½ to 1, tapped for 3 inch pipe, 16 and 20 inch stroke, 16 x 3 inch pulleys. Price.. (*Timbal*).. **112.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Bulldozer Power Working Head.

Fig. 1465



Entire Height, 69½ In. Floor Space, 28 x 36 In.

With Three inch Brass Air Compressor.
PATENTED.

Back Geared Five to One.

Has 5, 7½ and 10 inch Stroke.

Air Compressor Arranged to Work on 10 inch Stroke.

Machine Cut Gear.

Discharge 2½ or 3 inches.

State Size Suction Wanted, 2 inches to 4 inches.

PRESSURE against which the pump will operate is 75 lbs., when properly piped and not restricted. AIR COMPRESSOR. The Air Compressor is a seamless brass body cylinder, mounted directly on the yoke guide of the pump, the piston rod of the pump serving as a piston for the air compressor. The plunger is double leather. The air is forced directly from the cylinder into the discharge pipe of the pump through which it is conveyed to the pressure tank. The entire outfit is complete within itself, mounted ready for operation.

This working head is built especially for deep well work. Its construction insures great *lifting power, strength and capacity.* The arrangement is such that the power is applied direct to the piston from the two drive wheels, one located on each side of the main stand. By this construction we do away with side motion and wear.

The gears are located to one side, so that the work is done on the direct upward motion, the piston passing down on the angle. This insures great lifting power and light wear. All boxes are parted and babbitted. Has outer shaft bearer with universal adjustable box; has steel pinions.

This working head is so constructed that by uncoupling the piston (see coupling nut in cut) and removing the piston rod, a 4 inch plunger can be withdrawn through the head (see Fig. 814). The well pipe is attached to a pipe flange located below the air chamber, hence any size pipe, from 2 inch pipe to 4¼ inch casing can be used by changing the flanges. The pipe can be withdrawn through the base.

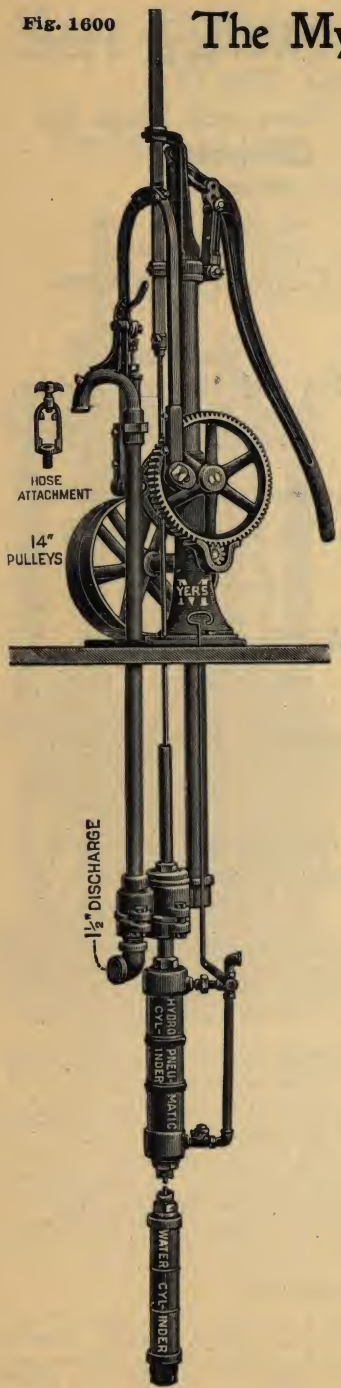
Will raise water 200 feet. Should be run not over 35 revolutions per minute and less on deep wells.

PRICE LIST, Represented by Fig. 1465.

No. 359A, Bulldozer Power Working Head, with air compressor, 5, 7½ and 10 inch stroke, without water cylinder or pipe (state size of well pipe to be used). Price..*(Polock)*..**$100.00**

No. 364A, Bulldozer Power Working Head, with air compressor, 16 and 20 inch stroke, without water cylinder or pipe (state size of well pipe to be used). Price....*(Tight)*.. **213.00**

Fig. 1600



The Myers Imperial Power Working Head.

With Underground Discharge.

Anti-Freezing.

Back Geared Six to One.

For Tubular or other Cylinder.

Fitted with the HYDRO-PNEUMATIC CYLINDER. For deep well work. Especially adapted for pumping water and air into pneumatic tanks in connection with gas engine or other belt power.

The HYDRO-PNEUMATIC CYLINDER is fully described under Figs. 1650 and 1539.

Will raise water 150 feet. Should be run not over 35 revolutions per minute and less on wells over 100 feet deep.

Speed: 6 inch Stroke, 40 Revolutions; 9 inch Stroke, 25 Revolutions of Plunger. For Capacity, see Cylinder list.

PRICE LIST, Working Head Only.

No. 389, The Myers Imperial Power Working Head.....(*Proll*) ..**$38.00**

CYLINDERS EXTRA.

Add to this list the list of Hydro-Pneumatic Cylinder and Water Cylinder to be Used.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Hydro-Pneumatic Cylinder.

Fig. 1539

Brass Lined

To be used in connection with any Force Pump Head, for forcing air into Pneumatic Pressure Tanks through the Regular Discharge Pipe.

Patented Nov. 19, 1907.

This cylinder is the only practical device now on the market that can be used in connection with deep well pumps.
Forcing the air into tank through discharge line with water AERATES the water in the TANK, keeping it pure and sweet.

Sectional view of the Two Cylinders in Operation.

Fig. 1445

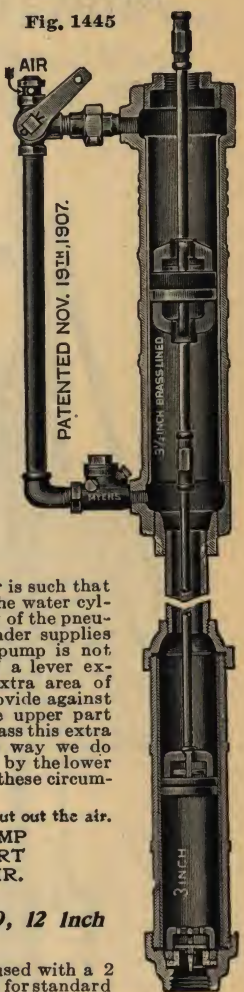


Fig. 1650

As used on Tubular Well where Plungers can be withdrawn.

Fig. 1539 represents the MYERS HYDRO-PNEUMATIC CYLINDER, which can be used in connection with any underground force pump. It is located immediately below the pump proper, hence it is always within easy reach.

PRINCIPLE—The principle of the above cylinder is such that it has a capacity of about one-third more area than the water cylinder located below it. This one-third of the capacity of the pneumatic cylinder not being supplied by the water cylinder supplies itself with air taken through the air pipe. When the pump is not required to pump air, it can be shut off by means of a lever extending to the base. When the air is shut off this extra area of the pneumatic cylinder would form a vacuum. To provide against this we fit the cylinder with a by-pass taken from the upper part of the cylinder above the plunger, through which by-pass this extra requirement is supplied from the discharge. In this way we do not detract from the amount of water that is supplied by the lower pumping cylinder, but instead, the air cylinder, under these circumstances, simply acts as a part of the discharge pipe.

Lower the lever to pump air. **Raise the lever to cut out the air.**

IN OPERATING THIS CYLINDER, PUMP MUST HAVE FULL STROKE. A SHORT JERKY STROKE WILL NOT SUPPLY AIR.

PRICE LIST, Represented by Fig. 1539, 12 Inch Stroke. For Open or Tubular Wells.

No. 550, 2½ inch Hydro-Pneumatic Cylinder to be used with a 2 inch pumping cylinder, 12 inch stroke, tapped for standard pipe, 2½ inch top, 2 inch bottom, and bushed to 1¼ inch pipe at both ends. Price each.....(*Prate*).. **$14.00**

No. 551, 3 inch Hydro-Pneumatic Cylinder to be used with 2½ inch pumping cylinder, 12 inch stroke, tapped for standard pipe, 3 inch top, 2½ inch bottom, and bushed to 1¼ inch pipe at both ends. Price each .....(*Prater*).. **15.00**

No. 552, 3½ inch Hydro-Pneumatic Cylinder to be used with 3 inch pumping cylinder, 12 inch stroke, tapped for standard pipe, 3½ inch top, 3 inch bottom, and bushed to 1¼ inch pipe at both ends. Price each.....(*Pound*).. **17.50**

Plunger rod on all of the above is ½ inch with reducer coupling to ⅜ inch rod.

PRICE LIST, 20 Inch Stroke.

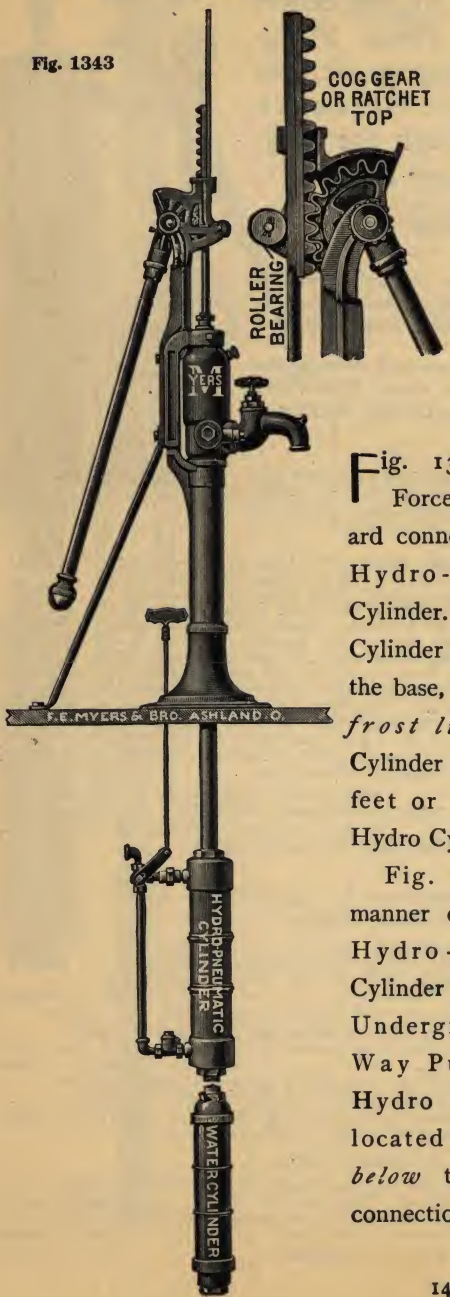
No. 555, 3 inch Hydro-Pneumatic Cylinder to be used with 2½ inch pumping cylinder, 20 inch stroke, tapped for standard pipe, 3 inch top and bottom. Price each.....(*Pale*).. **22.50**

No. 556, 3½ inch Hydro-Pneumatic Cylinder to be used with 3 inch pumping cylinder, 20 inch stroke, tapped for standard pipe, 3½ inch top and bottom. Price each.....(*Palea*).. **25.00**

Plunger Rod, ½ inch with couplings.

Illustrating the Manner of Attaching the Myers Hydro-Pneumatic Cylinder.

Fig. 1343

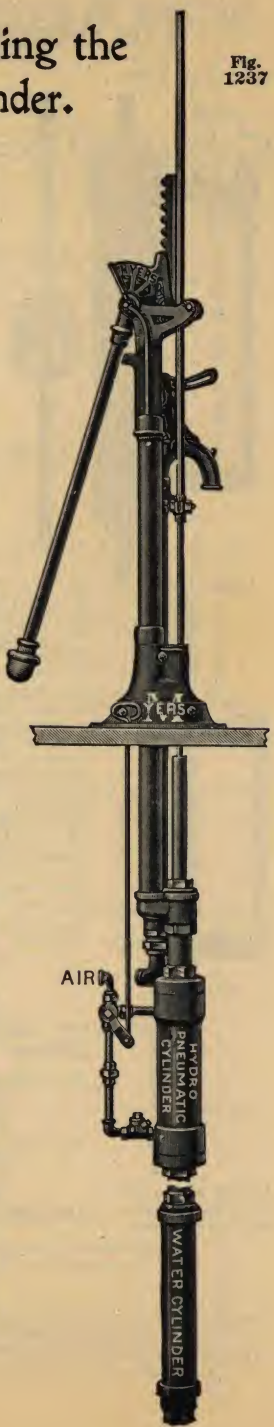


To Different Styles of Well Pumps.

Fig. 1343 shows a Force Pump Standard connected up with Hydro-Pneumatic Cylinder. The Hydro Cylinder is located near the base, but *below the frost line*. Water Cylinder should be 20 feet or more below Hydro Cylinder.

Fig. 1237 shows manner of connecting Hydro-Pneumatic Cylinder to an ordinary Underground Three-Way Pump. The Hydro Cylinder is located *immediately below* the three-way connection.

Fig. 1237



F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Scene Illustrating the Myers Regulator Pump,

As Used in Connection with Pressure Tank in Private Water Works Systems.

Fig. 1292

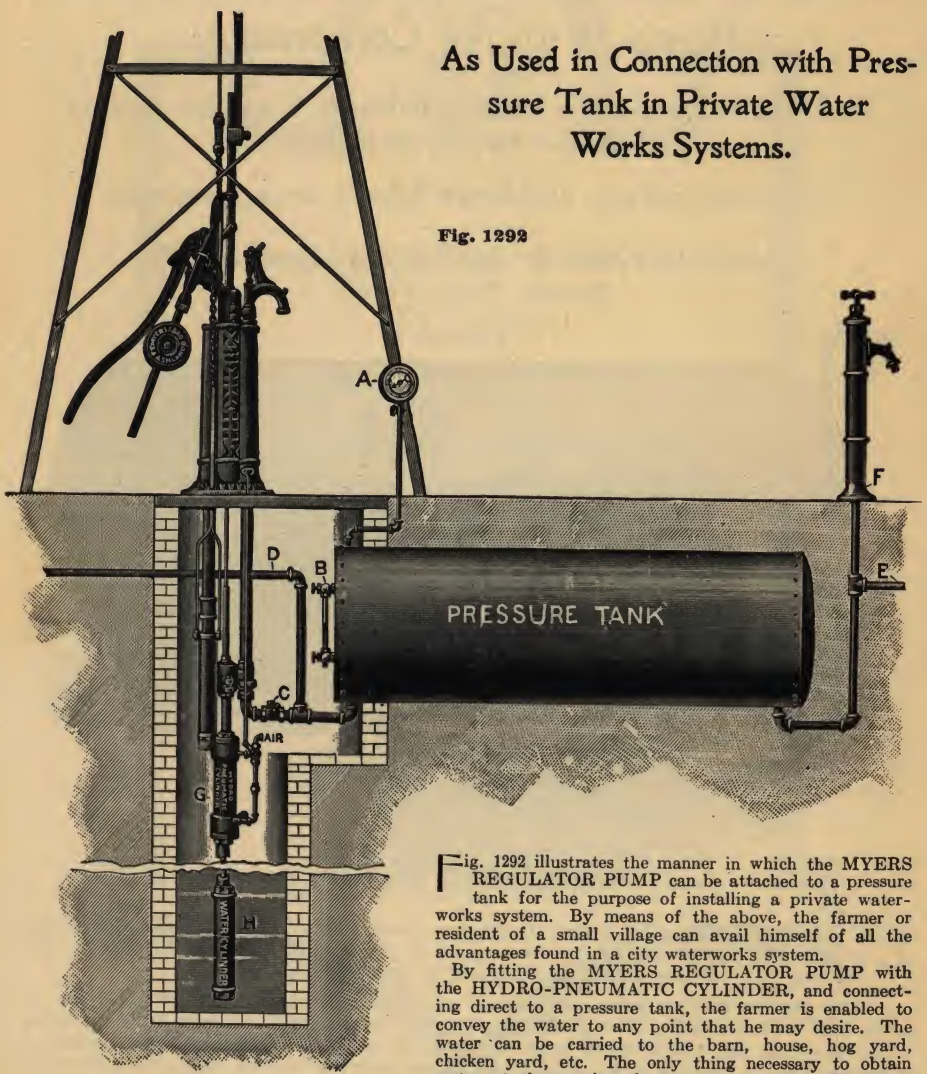


Fig. 1292 illustrates the manner in which the MYERS REGULATOR PUMP can be attached to a pressure tank for the purpose of installing a private waterworks system. By means of the above, the farmer or resident of a small village can avail himself of all the advantages found in a city waterworks system.

By fitting the MYERS REGULATOR PUMP with the HYDRO-PNEUMATIC CYLINDER, and connecting direct to a pressure tank, the farmer is enabled to convey the water to any point that he may desire. The water can be carried to the barn, house, hog yard, chicken yard, etc. The only thing necessary to obtain water at these points is to open a faucet. The compressed air in the tank forces the water to any of these delivery points.

Referring to the above cut—

A is the pressure gauge, which indicates the amount of pounds pressure you have on the tank.
B is the water gauge, showing the amount of water in the tank.
C is the check valve in the line pipe after elevating the pump, which removes the pressure and strain from the pump proper.
D is the pipe leading to the barn, for instance.
E is the pipe leading to the house.
F is a hydrant in the yard.
G is the Hydro-Pneumatic Cylinder.
H is the ordinary water cylinder as used in connection with the regular pump.
We furnish the pump and cylinders, but do not supply the pressure tanks.

Scene Illustrating the Myers Bulldozer Power Pump With Air Compressor.

As Used in Connection With a Pressure Tank for Private Water Works Systems.

WHY NOT INSTALL YOUR OWN WATER WORKS SYSTEM?

Additional Air Must Be Supplied to the Tank or It Will Become Water Logged.

Fig. 1643

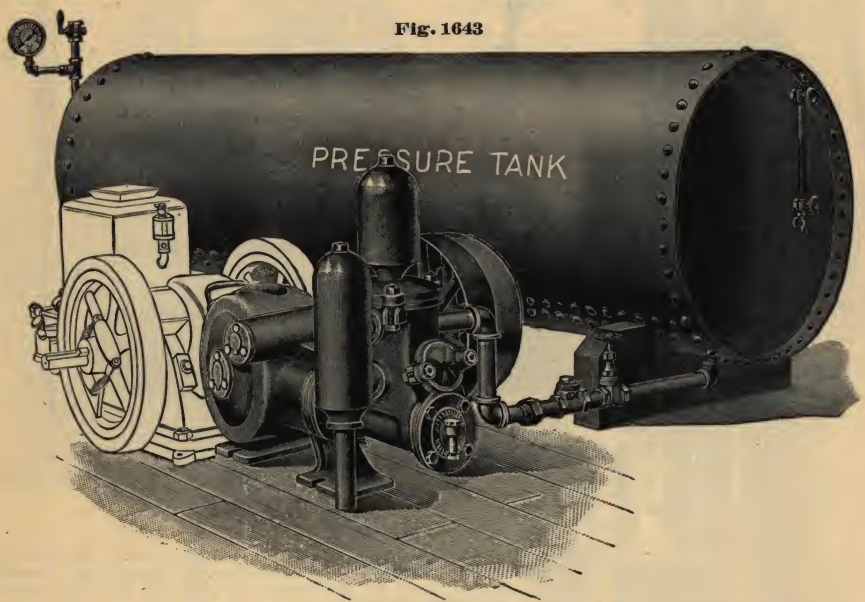


Fig. 1643 illustrates the Myers Bulldozer Pump with air compressing cylinder mounted up complete with pressure tank, engine and all equipment, showing the manner in which a water supply outfit is generally installed.

The suction of the pump can run to a cistern, spring or shallow well not to exceed 20 feet in depth. The discharge pipe is connected direct to the tank by using a union, check valve and cut off valve between the pump and the tank. The water is pumped directly into the tank, and the air is supplied by the air compressor through the line of pipe with the water. This compressed air in the tank delivers the water to the faucets in any part of the building through pipes placed for that purpose.

This illustration shows merely the one style of pump mounted for this purpose. The same general plan is used for any of our Hydro-Pneumatic Power Pumps. They can be driven by belt, as shown in this cut, or instead of the belt the pump can be connected direct to the engine by means of a gear wheel and pinion.

We do not furnish the tank or the engine, but build the pumps complete with the air compressor. They are especially designed for this purpose. This system of supplying water is the most economical one known to the trade and gives the user, either in the village or the country, all the advantages of a city water works.

MYERS BULLDOZER POWER PUMPS

DOUBLE ACTING. HORIZONTAL

For lifting water from wells 20 feet or less in depth and forcing it to an elevated tank, reservoir or pressure tank.

For use in factories, mills, villages, small irrigation plants, etc.

This line is complete within itself, requiring only the suction and discharge pipe to complete the job.

Made in sizes 2 x 5 to 6 x 20.

Capacities 160 to 7200 gallons per hour.

ELECTROTYPES FURNISHED FREE
For Catalog, Newspaper and Letterhead
ADVERTISING.
We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

Myers Self-Oiling Bulldozer Power Pump.

PATENT APPLIED FOR.

Fig. 1891

Fig. 1890

Self-Oiling. Fully Enclosed.
Back Geared 5 to 1.
For General Service.
100 Pound Pressure.

Fig. 1866

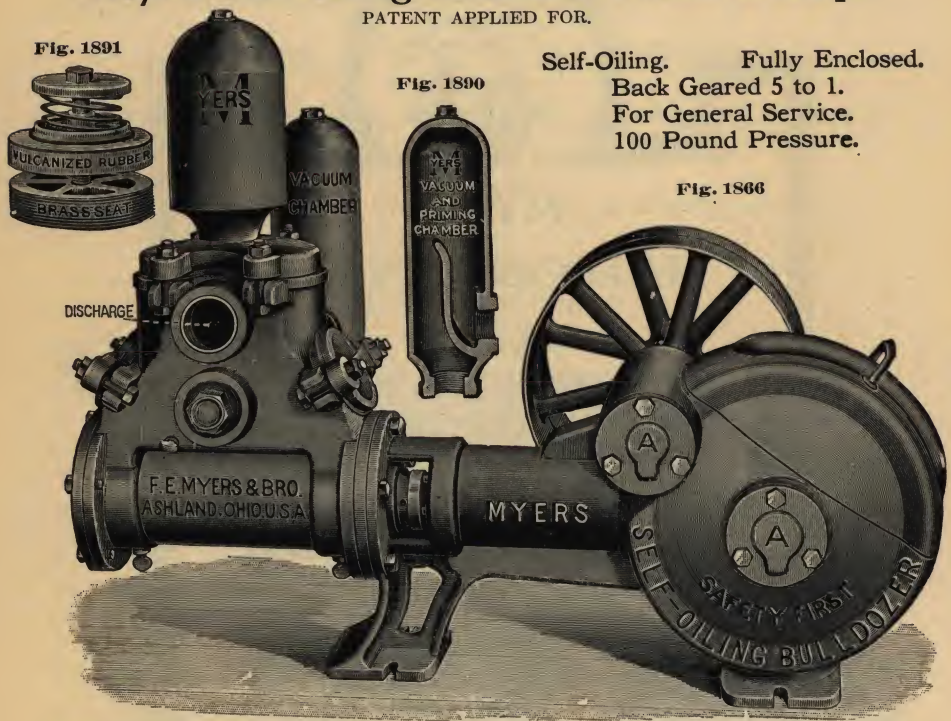


Fig. 1866, The Myers Self-Oiling Bulldozer Power Pump, is a single cylinder, double-acting power pump for general service on Farms, Plantations, Country Estates, in Apartment Houses, Hotels, Mills, Factories, Railways, Tanks, Stations, or wherever from 500 to 4500 gallons of water per hour are required against 100 lbs. pressure or 225 ft. elevation. This design has been brought out to meet the general needs of the trade for an efficient, durable pump of modern construction at a moderate price.

The power end consists of a one-piece casting which forms the base of the pump and oil reservoir, and in connection with a lid encloses all working parts, protecting them from dirt or injury, and securing safety of operation. This casting is completely machined at one setting for all bearings, the crosshead, cylinder head and shaft bearings, insuring alignment of all working parts. The pinion and gear are mounted between double bearings A—these bearings are renewable. Both gear and pinion are machine cut from the solid—the gear is cast iron and the pinion steel. An eccentric cast integral with the main gear operates the crosshead throughout a connecting rod which is adjustable for wear at the eccentric end, and is fitted with a renewable bronze bushing at the crosshead end. The crosshead is of large diameter running in a bored guide. From the oil reservoir in the base oil is carried by the main gear to the highest parts of the pump and by a system of channels distributed to all moving parts and returned again to the reservoir. This system of flood lubrication contributes quiet operation and long life, with a minimum of attention.

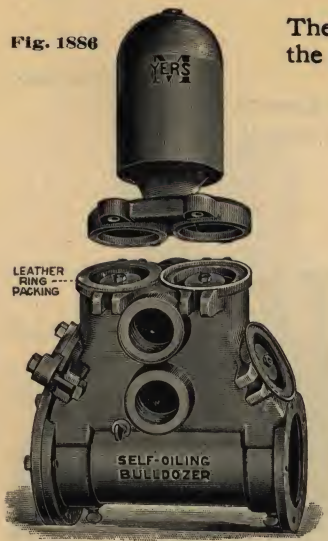
The cylinder, which is brass lined, is a one-piece casting, attached to the power end by heavy bolts. Large rubber valves on bronze grid seats are all located above the cylinder insuring priming. Suction and discharge valves are easily accessible for inspection and repair without disturbing pipe connections. Suction and discharge piping may be taken from either side.

As compared with older designs this pump has larger valves, more liberal and direct waterways, and a positive oiling system enabling it to be operated against a heavy pressure or at high speed, securing large volume and high efficiency.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Self-Oiling Bulldozer Power Pump.

Fig. 1886



The following cuts illustrate the different parts of the pump showing their strength and accessibility.

Fig. 1886 shows the top cap removed, exposing the valves and packing rings. The packing rings are recessed into the body of the pump so as to prevent them from being forced out of position under pressure. The valve cap on the left-hand end is in position showing the heavy bolts. Any valves in this pump can be reached without disconnecting either suction or discharge pipe. Suction and discharge pipe can be connected to either side of the pump.

Fig. 1891 shows an enlarged view of the Valve and Seat as used in the Self-Oiling Bulldozer Pump. The seat is brass. The valve is vulcanized rubber and held in position by a quick acting coiled spring, which prevents slippage in operation.

Fig. 1891

Also furnished with Brass Valves and Canvas Packed Plunger for pumping oil or gasoline.

Fig. 1887

Fig. 1887 shows the main body casting or frame of the Self-Oiling Bulldozer Pump. The self-oiling boxes and gears have been removed. This main casting forms the oil reservoir. The machining on this casting is done by a patented boring machine, by means of which the flanged face, crosshead and shaft bearings are machined at the same time and without reseating the casting, thus insuring perfect alignment of all bearings.

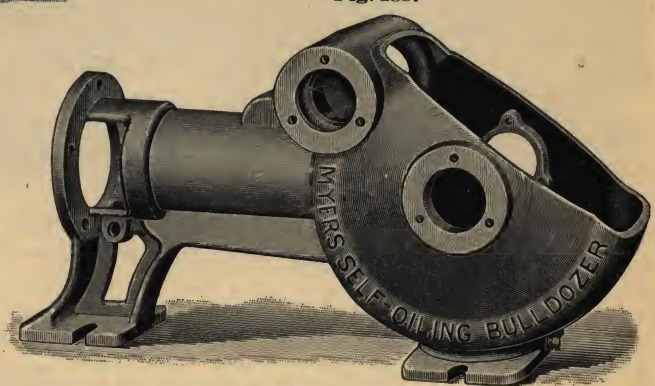


Fig. 1888

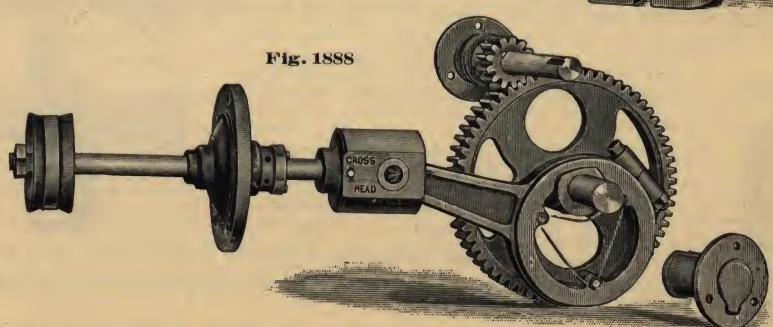


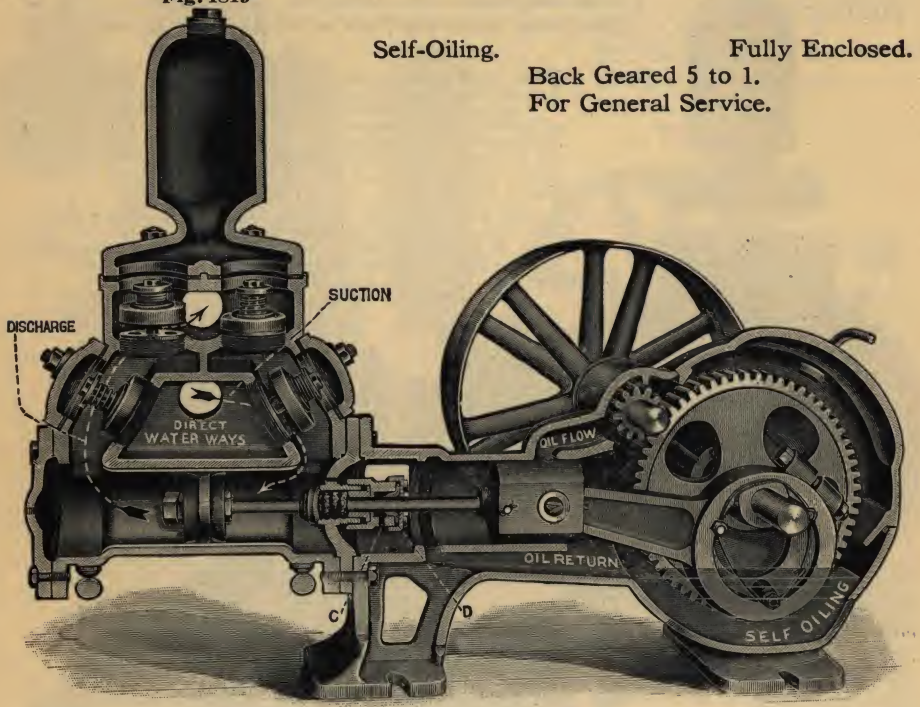
Fig. 1888 shows an assembly of the gear, pinion, eccentric connection crosshead and plunger. By using an eccentric piston connection we have the largest possible bearing, and one of the best when thoroughly lubricated. The gears and eccentric operate continuously in oil, thus **insuring** lubrication.

The Myers Self-Oiling Bulldozer Power Pump.

PATENT APPLIED FOR.

Fig. 1819

Self-Oiling. **Fully Enclosed.**
Back Geared 5 to 1.
For General Service.



Sectional View showing all parts including Oiling System, Large Valves and Direct Water-Way.

Fig. 1889

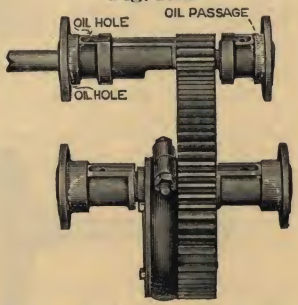


Fig. 1889 shows an end view of the main gear, pinion, boxing and shafts. Each box can be removed independently, a great advantage in case of repairs or readjustment. Oil passes around end of shaft washing out all sediment.

Fig. 1890

Fig. 1890 illustrates a sectional view of the Myers Priming and Vacuum Chamber. The division in the center of this vacuum chamber holds the water on a level above the suction valves in the pump, thus permitting the pump to hold its priming under abnormal conditions.

Water for priming poured into top of chamber flows direct into pump.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Bulldozer Power Pump.

PATENT APPLIED FOR.

Self-Oiling. Fully Enclosed.
Back Geared 5 to 1.
Renewable Bearings "A."
100 Pound Pressure.

FLOOR SPACE.

2½ x 3 Pump..14″ x 31″	4 x 5 Pump..24″ x 46½″
3 x 4 Pump..18″ x 37″	5 x 5 Pump..24″ x 48″

For General Service.

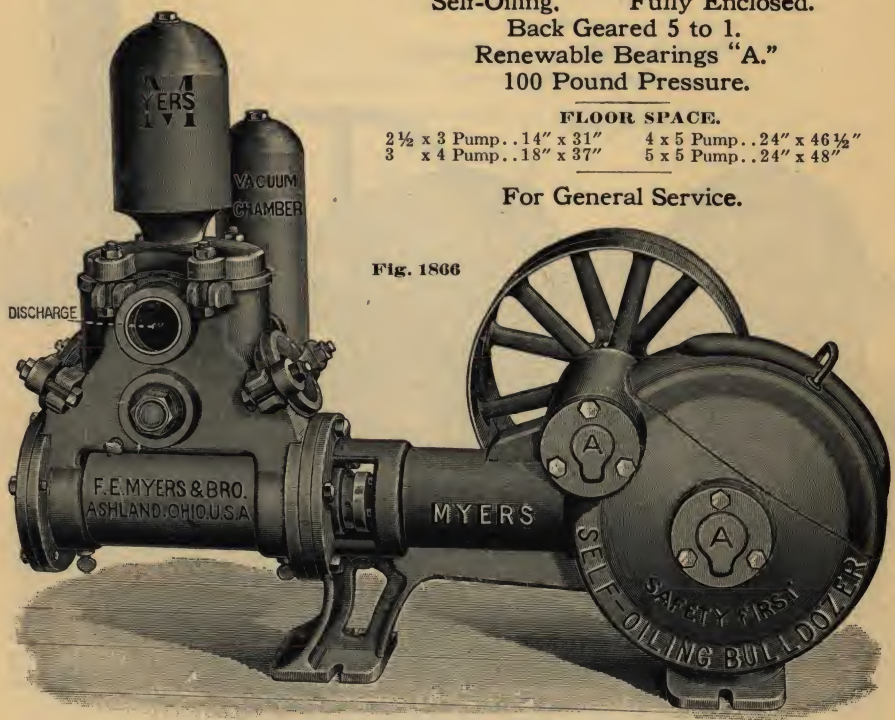


Fig. 1866

PRICE LIST, Represented by Fig. 1866.

MAXIMUM CAPACITY 500 GALS. PER HOUR AT 70 RPM.
USUAL SPEED 60 TO 65 RPM.

No. 612, Myers Self-Oiling Bulldozer Power Pump **with** Vacuum Chamber, 2½ x 3 in. Brass Lined Cylinder, 12 x 2 in. Tight and Loose Pulleys, ½ in. Brass Piston Rod, Suction and Discharge 1¼ in. List.....*(Terry)*..**$53.00**

MAXIMUM CAPACITY 1000 GALS. PER HOUR AT 70 RPM.
USUAL SPEED 55 TO 60 RPM.

No. 613, Myers Self-Oiling Bulldozer Power Pump **with** Vacuum Chamber, 3 x 4 in. Brass Lined Cylinder, 14 x 2½ in. Tight and Loose Pulleys, ⅝ in. Brass Piston Rod, Suction and Discharge 1½ in. List.....*(Tent)*..**$80.00**

MAXIMUM CAPACITY 2000 GALS. PER HOUR AT 65 RPM.
USUAL SPEED 50 TO 55 RPM.

No. 614, Myers Self-Oiling Bulldozer Power Pump **with** Vacuum Chamber, 4 x 5 in. Brass Lined Cylinder, 16 x 4 in. Tight and Loose Pulleys, 1⅛ in. Brass Covered Piston Rod, Suction and Discharge 2 inch. List.....*(Tenter)*..**$105.00**

MAXIMUM CAPACITY 3000 GALS. PER HOUR AT 60 RPM.
USUAL SPEED 45 TO 50 RPM.

No. 615, Myers Self-Oiling Bulldozer Power Pump **with** Vacuum Chamber, 5 x 5 in. Brass Lined Cylinder, 16 x 4 in. Tight and Loose Pulleys, 1⅛ in. Brass Covered Piston Rod, Suction and Discharge 2½ inch. List.....*(Tenure)*..**$120.00**

MAXIMUM CAPACITY 4500 GALS. PER HOUR AT 52 RPM.
USUAL SPEED 40 TO 45 RPM.

No. 616, Myers Self-Oiling Bulldozer Power Pump **with** Vacuum Chamber, 6 x 6 in. Brass Lined Cylinder, 24 x 4 in. Tight and Loose Pulleys, Suction and Discharge 3 inch. List.....*(Thou)*..**$190.00**

Air Intake Valve for Pneumatic use on any of above Pumps add to list.....*(Tepee)*.. **2.00**

For Pumping Oil or Gasoline these Pumps are fitted with Brass Valves and Canvas Plunger at extra price as follows: 2½″ Pump..**$1.25**; 3″ **$2.00**; 4″ **2.50**; 5″ **3.75**; 6″ **6.25.**

Myers Self-Oiling Bulldozer Power Pump.

Motor Drive.

Back Geared 5 to 1. Self-Oiling.
For General Service.

Fig. 1849

Fig. 1849 illustrates the Myers Self-Oiling Bulldozer Power Pump mounted on plank and equipped with belt tightener to be used with motor.

PRICE LIST.

MOTOR, BELT AND PLANK BASE NOT INCLUDED.
PRICES ON MOTOR AND BELT ON APPLICATION.

No. 612M,	2½ x 3 Pump, with 15 x 2½ Pulley and belt tightener	(*Terse*)..	**$ 58.00**
No. 613M,	3 x 4 Pump, with 20 x 3 Pulley and belt tightener	(*Tesla*)..	**88.00**
No. 614M,	4 x 5 Pump, with 24 x 4 Pulley and belt tightener	(*Test*)..	**115.00**
No. 615M,	5 x 5 Pump, with 24 x 4 Pulley and belt tightener. List	(*Testa*)..	**130.00**
No. 616M,	6 x 6 Pump, with 24 x 4 in. Pulley and belt tightener. List	(*Thrall*)..	**203.00**

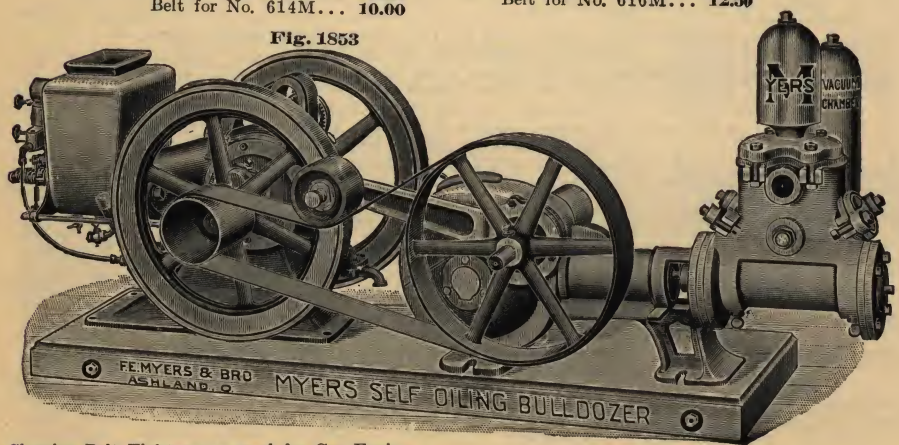
For Plank Base add to the above lists as follows:

Base for No. 612M...	**$5.00**	Base for No. 615M...	**$10.00**
Base for No. 613M...	**6.25**	Base for No. 616M...	**12.50**
Base for No. 614M...	**10.00**		

For Belt add to the above lists as follows:

Belt for No. 612M...	**$5.50**	Belt For No. 615M...	**$10.00**
Belt for No. 613M...	**6.25**	Belt for No. 616M...	**12.50**
Belt for No. 614M...	**10.00**		

Fig. 1853



Showing Belt Tightener as used for Gas Engine.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers High Pressure Self-Oiling Bulldozer Power Pump.

PATENT PENDING.

Self-Oiling. Fully Enclosed. Back Geared 5 to 1.
For Pumping Oil, Hot or Cold Water.
200 Pounds Pressure or 450 Feet Elevation.

FLOOR SPACE.
3 x 5 Pump.....24″ x 44″
4 x 6 Pump.....25″ x 51″

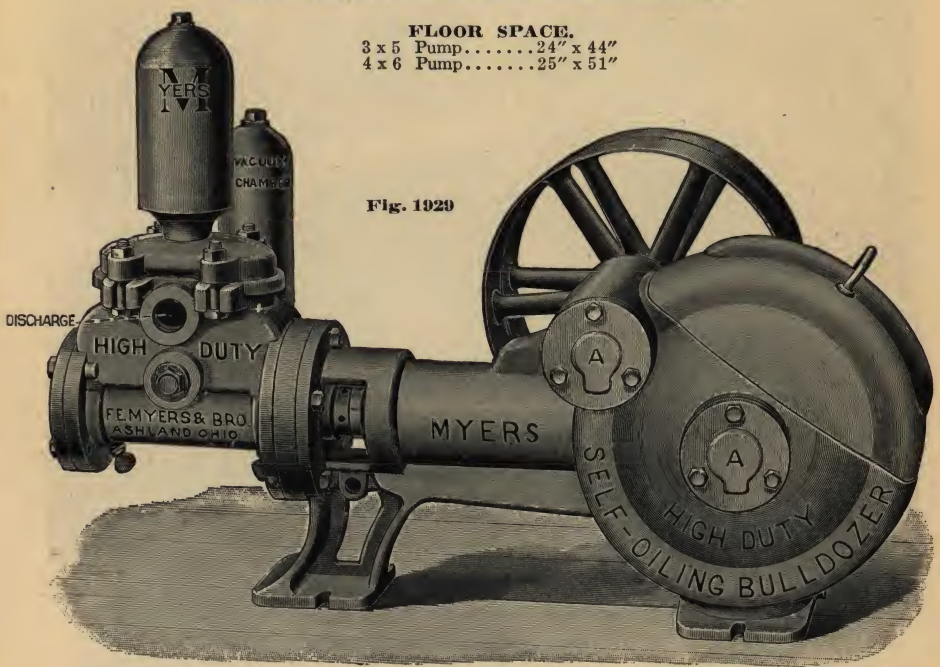


Fig. 1929

Fig. 1929 illustrates the Myers High Pressure Self-Oiling Bulldozer Power Pump for service against 200 pounds pressure or 450 feet elevation.

The power end is the same as used with our standard line of Self-Oiling Pumps with all working parts enclosed and running in oil. Renewable Bearings.

The cylinder is a one-piece casting, brass lined and fitted with bronze valves on bronze seats, all accessible for inspection by removing air chamber and without disturbing pipe lines. The piston is packed with double cup leathers (Canvas Packing used for hot water) supported by heavy castings. Suction and discharge may be taken from either side. Brass covered piston rod. Adapted for high pressure pumping or boiler feed service.

PRICE LIST, Represented by Fig. 1929.

MAXIMUM CAPACITY 1100 GALS. PER HOUR AT 60 RPM.
USUAL SPEED 45 TO 55 RPM.

No. 633, Myers High Pressure Self-Oiling Bulldozer Power Pump with Vacuum Chamber, 3 x 5 in. Brass Lined Cylinder, 16 x 4 in. Tight and Loose Pulleys, Brass Covered Piston Rod, Suction and Discharge 1½ inch. Price.....(*Thwack*)..**$105.00**

No. 633M, 3 x 5 in. High Pressure Pump, with 24 x 4 in. Pulley and Belt Tightener See Fig. 1849 or 1853 opposite page. Price.....(*Thyme*)..**$115.00**

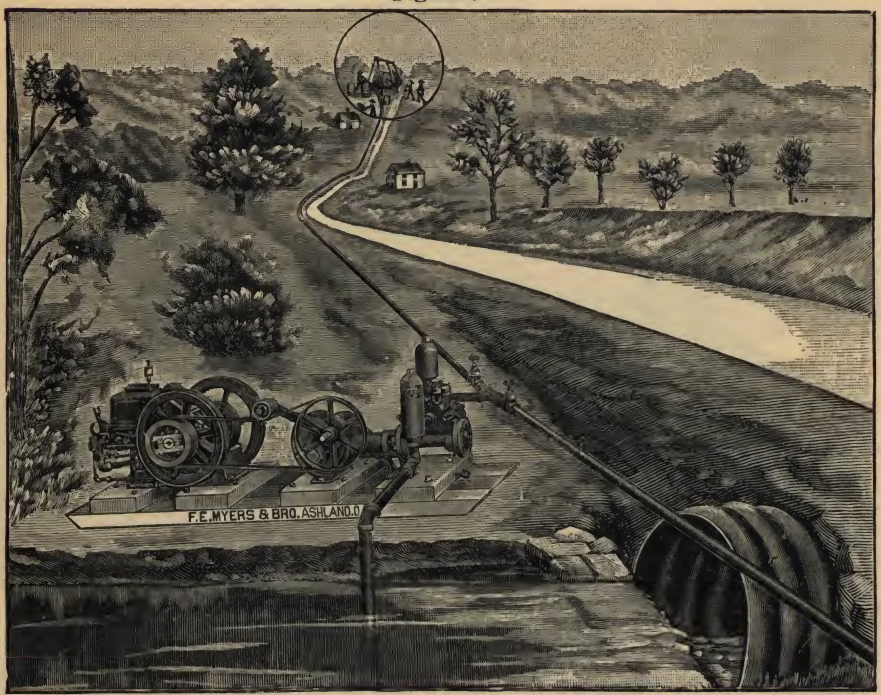
MAXIMUM CAPACITY 1900 GALS. PER HOUR AT 50 RPM.
USUAL SPEED 40 TO 45 RPM.

No. 634, Myers High Pressure Self-Oiling Bulldozer Power Pump, with Vacuum Chamber, 4 x 6 in. Brass Lined Cylinder, 24 x 4 in. Tight and Loose Pulleys, Brass Covered Piston Rod, Suction and Discharge 2 inch. Price.....(*Thwart*)..**$175.00**

No. 634M, 4 x 6 in. High Pressure Pump, with 30 x 4 in. Pulley and Belt Tightener. See Fig. 1849 or 1853 opposite page. Price.....(*Tiao*).. **187.00**

Myers Self-Oiling Bulldozer Power Pump at Work in Road Building.

Fig. 1937



The Myers Self-Oiling Bulldozer as used by many contractors in road building The above cut illustrates the pump delivering water to the workmen two miles from point of supply. Will deliver water from two to three miles in either direction, a great saving in time and expense.

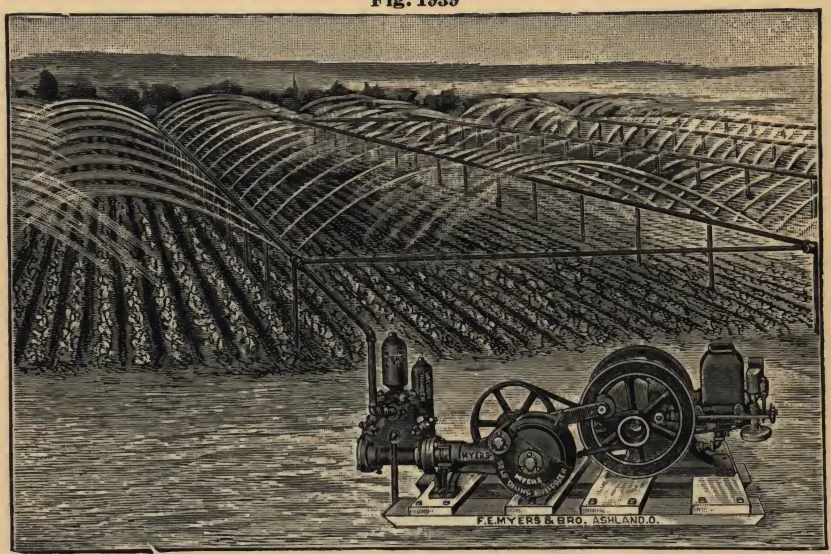
Fig. 1938

The Myers Knapsack Spray Pump as used for spraying gasoline on leaves (accumulated on road way) for burning. Road way can be cleaned of leaves in this manner for the small cost of one cent a yard, including material and labor, an exceedingly small amount as compared with the old method of picking by hand, and the leaves must be removed before the road can be completed.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Self-Oiling Bulldozer as Used for Irrigation.

Fig. 1939



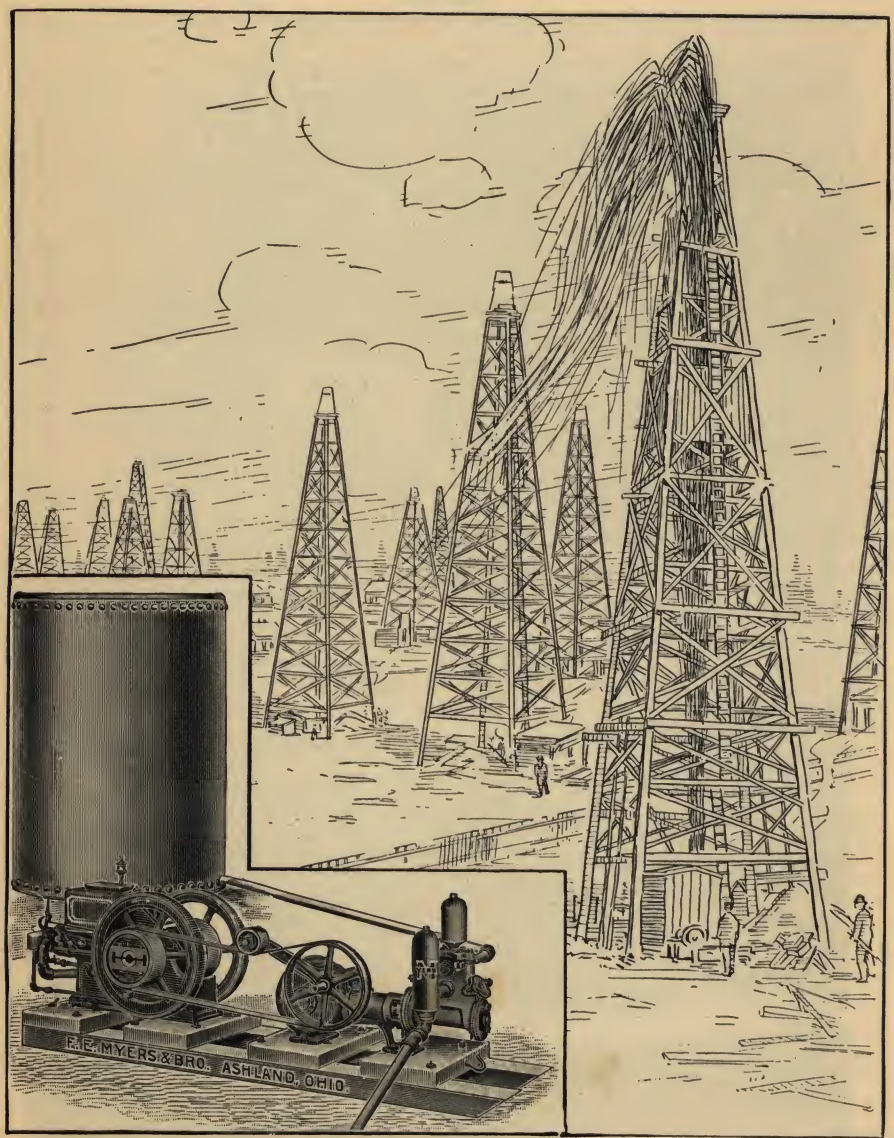
The above cut shows the Myers Self-Oiling Bulldozer operating a Skinner Irrigation System. This system delivers one inch of rainfall in nine hours with water supplied at 30 lbs. pressure on sprinkling line. This requires 60 gallons of water per minute per acre. System operated in sections. One inch of water EVERY TEN DAYS is sufficient.

Fig. 1940

The above cut illustrates the Myers Self-Oiling Bulldozer as used in Flood Irrigation. The pump taking water from a creek and delivering to small lateral ditch; also delivering to reserve supply tank, from which the water can be taken as wanted. Many Myers Bulldozers are in use for small plants of this kind.

The Myers Self-Oiling Bulldozer Power Pump.

Operating in Oil Fields.



The High Pressure Pump can be used to force oil through pipe line to any distance or elevation not exceeding 200 lbs. pressure. The Pump has extra heavy gears, shafts and bearings, with specially built water end constructed to withstand the severe usage required of a pump for this purpose.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Power Oil Pumps.

Kerosene or Gasoline.

Any Myers Bulldozer Pump can be converted into an oil pump by changing the rubber valve to brass, and the plunger leathers to canvas.

The following list shows the addition in price for different size pumps:

2½ inch Pump, add to list	**$1.25**
3 inch Pump, add to list	**2.00**
4 inch Pump, add to list	**2.50**
5 inch Pump, add to list	**3.75**
6 inch Pump, add to list	**6.25**

Horse Power Required to Raise Water to Different Distances in Feet Elevation.

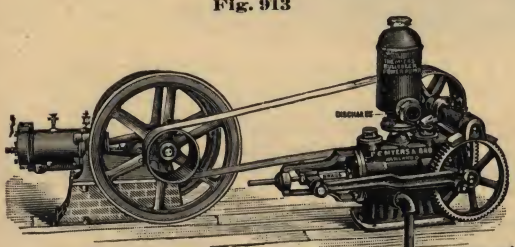
Double Acting Pumps.

This for Steam or Electric Power. If Gas Engine is Used, Will Require 50% More.

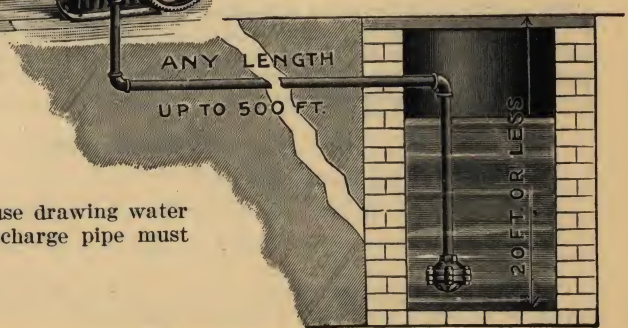
Total Feet Elevation		25	50	75	100	150	200
H. P. Required.....	2 x 3 Cyl.	⅛	⅕	⅖	½	¾	1
H. P. Required.....	2½x 4 "	⅕	⅖	½	¾	1	1¼
H. P. Required.....	3 x 4 "	⅕	⅖	¾	1	1¼	1½
H. P. Required.....	4 x 5 "	½	¾	1	1½	2	2½
H. P. Required.....	5 x 5 "	¾	1	1¼	1¾	2½	3
H. P. Required.....	6 x 6 "	1½	1¾	2¼	2½	3	4
H. P. Required.....	6 x10 "	1½	2	2½	3	4	5
H. P. Required.....	6 x20 "	4	5	6	7	8	10

Horizontal Suction.

Fig. 913



Water can be drawn any reasonable distance horizontally—the only thing to be overcome is the friction in pipe and atmospheric pressure. Perpendicular lift must not be over 20 ft. Always use a foot valve at the lower end of the pipe; use vacuum chambers when possible—they assist the flow of water materially.

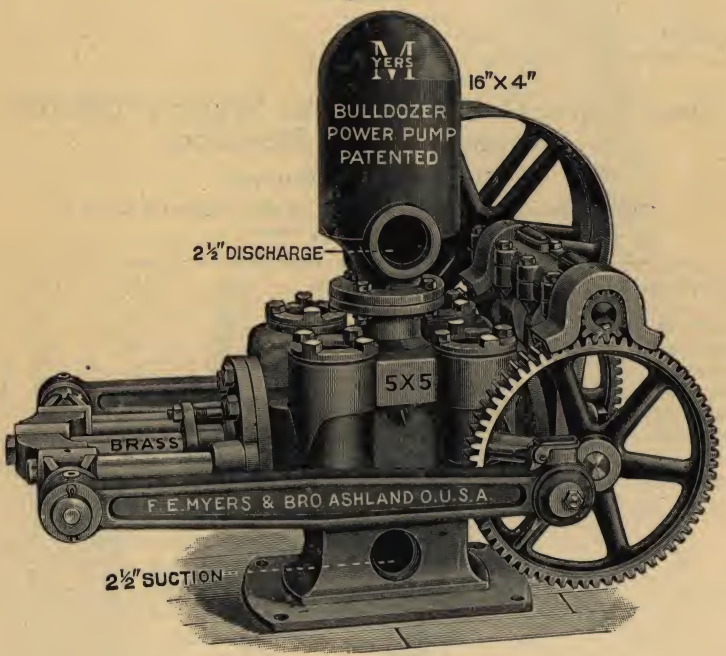


Any Bulldozer Power Pump can be utilized to pump water from a distance. We have them in use drawing water 500 feet. Suction and discharge pipe must not be restricted.

The Myers Bulldozer Power Pumps and Their Construction.

PATENTED.

Fig. 1732



The Myers line of Bulldozer Power Pumps is made in eight sizes, from 2 x 5 inches to 6 x 20 inches, all double acting, capacity from 350 gallons to 7200 gallons per hour, suitable for pumping water from shallow wells of 20 feet or less in depth and forcing it to any reasonable elevation.

We wish to call special attention to the manner in which the power is applied. The pump is driven by two pinions placed on the same shaft. These pinions in turn drive two gear wheels. These gear wheels convey the power to the piston. By this construction we obtain the greatest possible strength with a minimum weight of material in a pump of this type.

SPECIAL FEATURES.

1st. Four bearings instead of one.

2nd. The piston driven from both sides insures perfect alignment.

3rd. All friction and side strain reduced to a minimum, insures double the wear of any other construction.

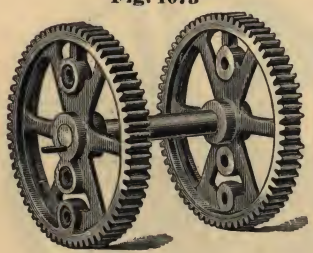
4th. A careful study of the above and the illustrations will convince you that this style of construction has many points of merit.

The Myers Bulldozer Power Pump.

PATENTED.

With Machine Cut Gear. Brass Lined Cylinder.
Brass Covered Piston Rod. Back Geared 5 to 1. 5 Inch Stroke.
Maximum Capacity, Discharging Water at the Pump,
2000 Gallons per hour.

Fig. 1073



FLOOR SPACE.

	500	501	502	503	505
Width, inches..	18	24	24	30	32
Length, inches..	25	32	32	35	38
Height, inches..	18	23	23	26½	32

Fig. 1073 illustrates the gear wheels and shows the manner in which they are both mounted on one shaft, being thoroughly keyed to this, thus making the strongest possible construction.

Fig. 1732

The cylinder is fitted with brass lining; is carried on a substantial base which makes a bed plate for the pump, the driving gear being carried on one end, and the piston guides and crosshead on the opposite end of the main body of the pump.

The gears *are machine cut*, of the most approved pattern. They are double, with ample strength to stand the strain required of them. The wrist pins are brass bushed.

The valves are hard rubber, with a brass grid seat, and are of the quick closing pattern. Each valve on this style of pump is located in its own valve box, and may be easily reached by removing the cap immediately over it.

The piston rod is brass covered and outside packed.

The plunger is fitted with double cup leathers, with a turned washer placed between them, which insures perfect alignment. A liberal packing surface is provided for the cylinder heads and valve caps.

The suction pipe can be attached to either side, making it very convenient.

The air chamber can be set to discharge at any quarter.

The speed at which these pumps can be operated varies in accordance with the elevation under which they are being operated.

Each Pump is tested in our Factory under 100 Pounds Pressure.

PRICE LIST, Represented by Fig. 1732.

No. 500, Bulldozer Power Pump, cut gear, 2 x 5 inch removable brass cylinder, hemp packed plunger, 2 inch face tight and loose pulleys, suction and discharge 1 inch. Price..(*Poke*).. **$69.00**

No. 501, Bulldozer Power Pump, cut gear, 2½ x 5 inch removable brass cylinder, 14 x 2½ inch tight and loose pulleys, suction 1½ inch, discharge 1¼ inch. Price.....(*Pane*).. **75.00**

No. 502, Bulldozer Power Pump, 3 x 5 inch brass lined cylinder, cut gear, 14 x 2½ inch tight and loose pulleys. Suction 1½ inch, discharge 1¼ inch. Price.....(*Paned*).. **81.00**

No. 503, Bulldozer Power Pump, 4 x 5 inch brass lined cylinder, cut gear, 16 x 4 inch tight and loose pulleys, 2 inch suction and discharge. Price.....(*Prior*).. **94.00**

No. 505, Myers Bulldozer Power Pump, 5 x 5 inch brass lined cylinder, cut gear, 16 x 4 inch tight and loose pulleys, 2½ inch suction and discharge. Price.....(*Tauty*).. **100.00**

The Myers Bulldozer Power Pump.

PATENTED.

With Machine Cut Gear.

Six Inch Brass Lined Cylinder,
Ten Inch Stroke.

Maximum Capacity,
5800 Gallons per hour.

Back Geared 6 to 1.

FLOOR SPACE.
Width, 41 inches.
Length, 53 inches.
Height, 39 inches.

Fig. 1196

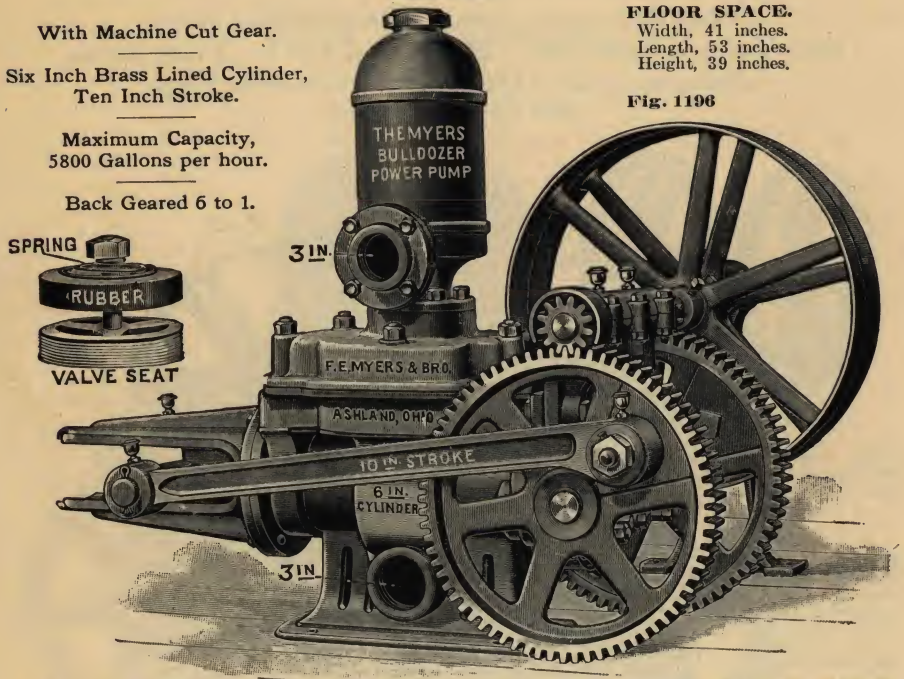


Fig. 1196 represents the Myers Bulldozer Power Pump, as built with 6 inch cylinder and 10 inch stroke. The pump is mounted on one base. The valve cap is held in position by six ¾ inch stud bolts, and by removing these the valves can be reached for repairs.

The pump throughout is considerably heavier in construction than the balance of our Bulldozer line, this pump being especially designed for extremely heavy work.

The power is transmitted to the piston by two sets of gears, one on either end of the main shaft, thus increasing the strength.

SPECIFICATIONS.

THE CYLINDER is formed by the main body of the pump, which is bored and lined with a heavy seamless drawn brass tube 6 inches in diameter, with a 10 inch stroke.
THE VALVE SEATS are of the Grid Pattern.
THE VALVES are hard rubber, 4½ inches in diameter, fitted with coil spring which assists in closing and also prevents slippage under heavy pressure.
THE GEARS are double, with 2½ inch face with extra heavy teeth, machine cut, back geared 6 to 1.
THE PISTON ROD is brass covered and driven from both sides, which insures perfect alignment.
THE PLUNGER is hemp packed.
THE GUIDE for piston rod is mounted direct on cylinder head, has bored ways for crosshead.
THE SHAFTING is 1½ inch for belt pulley and 2 inch for gears.
THE PULLEYS are 24 inch in diameter by 4 inch face.
THE SUCTION AND DISCHARGE are tapped for 3 inch pipe.
SPEED not to exceed 40 revolutions per minute when discharging water at the surface.
CAPACITY at 40 strokes per minute, 5,800 gallons per hour.
ELEVATION against which this pump will operate is 150 feet perpendicular or equal pressure when properly piped and not restricted.

Each Pump is tested in our Factory under 100 Pounds Pressure.
Fig. 1196, No. 352, pumping 5800 gallons per hour.

Feet Elevation	25	50	75	100	150
H. P. Required	1¼	2	3	4	5

The above is full capacity at 40 revolutions per minute. At over 100 ft. elevation speed should be reduced accordingly. Capacity: 2.44 gallons each revolution of plunger.

PRICE LIST, Represented by Fig. 1196.

No. 352, Bulldozer Power Pump, with 6 x 10 inch brass lined cylinder and outer shaft support, 24 x 4 inch pulleys, 3 inch suction and discharge. Price.....(*Reckon*)..**$188.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

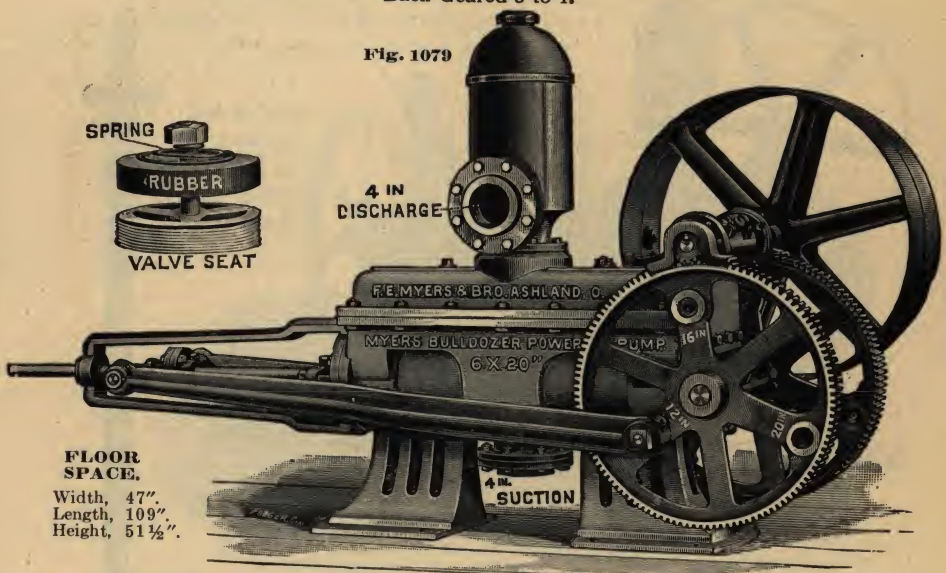
The Myers Bulldozer Power Pump.

PATENTED.

Six Inch Brass Lined Cylinder. Twenty Inch Stroke. Machine Cut Gear.

Double Acting. Capacity, 7200 Gallons per Hour at 25 Strokes per Minute. Back Geared 8 to 1.

Fig. 1079



FLOOR SPACE.

Width, 47".
Length, 109".
Height, 51½".

Fig. 1079 represents the Myers Bulldozer Power Pump, constructed with special reference to power, strength and capacity.

The entire pump is mounted on one base, making it easy to set under all conditions. The special feature is the double gear, which is practically two sets of gears transmitting power to the piston rod in two lines, one from each end of the main shaft, giving a decided advantage over all other constructions.

SPECIFICATIONS.

THE CYLINDER is formed by the main body of the pump, this body being bored and lined with a heavy seamless drawn brass tubing 6 inches in diameter, with 20 inch stroke.
THE GEARS are double, machine cut, 2⅜ inch face, extra strong and back geared 8 to 1.
THE VALVE SEATS are brass, of the Grid Pattern.
THE VALVES are hard rubber fitted with a coil spring, which assists in closing to prevent slippage of water. They are located under the top cap and easily reached by removing same.
THE PISTON ROD is drawn steel, and is driven from both sides, which insures perfect alignment, reducing the side strain to the minimum.
THE PLUNGER is hemp packed.
THE GUIDE for piston is mounted directly on the head of the pump.
THE SHAFTING is 1½ inch for belt pulley and 2 inch for gear.
THE PULLEYS are 6 inch face by 30 inches diameter.
SUCTION AND DISCHARGE are tapped for 4 inch pipe.
SPEED about 25 revolutions per minute.
ELEVATION against which this pump will operate is 150 feet perpendicular or equal pressure when properly piped and not restricted.

Each Pump is tested in our Factory under 100 Pounds Pressure. Fig. 1079, No. 363, pumping 7200 gallons per hour.

Feet Elevation	25	50	75	100	150
H. P. Required	4	5	6	7	9

The above is full capacity at 25 revolutions per minute. At over 100 ft. elevation speed should be reduced accordingly. Capacity: 4.88 gallons each revolution of plunger on 20 inch stroke.

PRICE LIST, Represented by Fig. 1079.

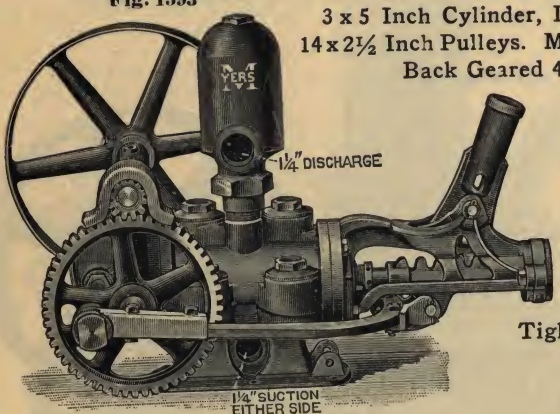
No. 363, Bulldozer Power Pump, with 6 inch brass lined cylinder, 30 x 6 inch pulleys, 4 inch suction and discharge. Price.....*(Reciting)*..**$344.00**

The Myers Century Power Pump.

PATENTED.

With Cog Gear Handle Attachment.

Fig. 1593



3 x 5 Inch Cylinder, Double Acting.
14 x 2½ Inch Pulleys. Machine Cut Gear.
Back Geared 4½ to 1.

Capacity 900 Gallons Per Hour, Discharging at the Pump.

Tight and Loose Pulleys

Floor Space, 24 x 31 in.

Figs. 1593 and 1594 illustrate the Myers Century Power Pump which is designed especially for use with gasoline engines for supplying water to pressure tank systems. It is complete within itself, adapted for both Hand and Power use.

SPECIFICATIONS.

THE CYLINDER is 3 in. in diameter and 5 in. in length, lined with Seamless Drawn Brass Tubing.

THE VALVES are metal faced with Rubber, with Brass Valve Seats. Each valve is located under separate cap.

THE GEARS are machine cut.

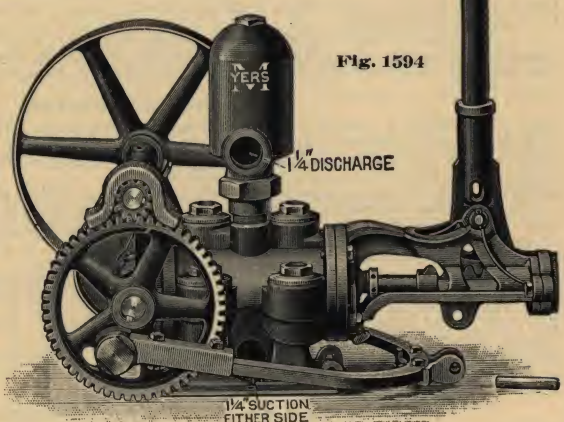
THE PISTON ROD is drawn steel, brass covered.

THE PLUNGER is double cup leather.

THE SUCTION can be taken from either side—is tapped for 1¼ in. pipe. Discharge can be set at any angle.

THE PULLEYS are 14 x 2½ in. in diameter.

Fig. 1594



GOOD FOR 50 LBS. WORKING PRESSURE.

When wanted to use as a hand pump all that is necessary is to remove the pin connecting the side arms to the piston, then by placing the handle in the socket the pump is ready for operation by hand. This feature will be appreciated, as parties quite frequently do not care to start their engine when a small quantity of water only is required.

PRICE LIST, Represented by Figs. 1593 and 1594.

No. 377, Pump complete as shown in cut, 3 x 5 inch cylinder, with 14 inch tight and loose belt pulleys. Price ..... (*Prove*) .. **$46.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Bulldozer Power Pump.

PATENTED.

With 1 H. P. Motor, Mounted. **With Machine Cut Gear.**

With Brass Lined Cylinder. **Brass Covered Piston Rod.**

Back Geared 5 to 1.

Table of Sub-Bases for Myers Bulldozer Pumps.

Pump No.		Base No.		List of Base
501	Geared	2365	For Motor	$10.00
502	"	2365	"	10.00
500	"	2379	"	7.50
443G	"	2379	"	7.50
343G	"	2404	"	10.00
503	"	2558	"	19.00
505	"	2558	"	19.00
353	"	2558	"	19.00
372	"	2559	"	10.00
344	"	2559	"	10.00
345	"	2559	"	10.00
352	"	2572	"	31.00
480M	"	2595	"	10.00

Fig. 1579

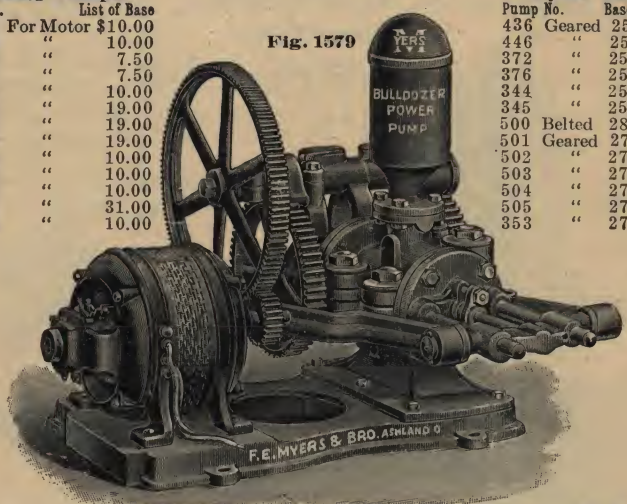


Table of Sub-Bases for Myers Bulldozer Pumps.

Pump No.		Base No.		List of Base
436	Geared	2595	For Motor	$10.00
446	"	2595	"	10.00
372	"	2559	"	10.00
376	"	2559	"	10.00
344	"	2559	"	10.00
345	"	2559	"	10.00
500	Belted	2807	For Motor	15.00
501	Geared	2720	For Engine	12.50
502	"	2720	"	12.50
503	"	2799	"	25.00
504	"	2799	"	25.00
505	"	2799	"	25.00
353	"	2799	"	25.00

Maximum Capacity, Discharging Water at the Pump at 50 R. P. M.

2 x 5 inch, 400 gals. per hour; 3 x 5 inch, 900 gals. per hour.

Fig. 1579 illustrates the Myers Bulldozer Power Pump as mounted up complete with a 1 H. P. Motor. Any motor can be used in connection with the Myers Bulldozer Pump when mounted as above.

The pump is fitted with machine cut gear and pinion instead of belt pulley. This makes a direct connection from the motor to the pump.

PRICE LIST, Pump and Base Only. Motor Extra.

No. 500B, Bulldozer Power Pump, 2 x 5 inch removable cylinder, hemp packed plunger, with cut gear and steel pinion, with motor base and air chamber (*the motor is not included in this price*) .....(*Porte*).. **$85.00**

No. 502B, Bulldozer Power Pump, 3 x 5 inch cylinder with machine cut gear wheel and steel pinion, with motor base and air chamber (*the motor is not included in this price*) .....(*Portly*).. **102.00**

Price for motors furnished on application.

If Rawhide Pinion instead of Steel is wanted add $6.25 to list.

Fig. 1474

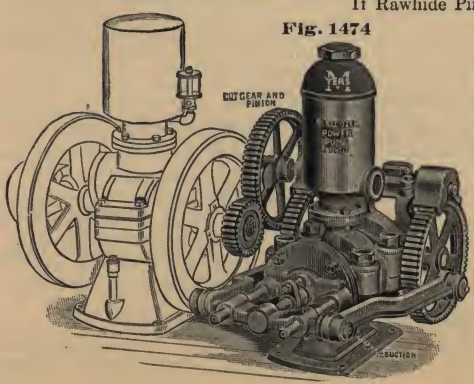


Fig. 1474 illustrates the manner in which any Myers Bulldozer Power Pump or Working Head may be connected direct to the crankshaft of any size or height gasoline engine. Instead of the belt pulley regularly furnished on the power pump we fit it with a cut gear and pinion suited to the number of revolutions of the engine. The pump is furnished complete, including the pinion. The only thing that is necessary in ordering the outfit is to give us the size of the crankshaft and the R. P. M. of the engine. These gears are all machine cut and enable the user to mount the engine and pump direct and to occupy the smallest possible space. The height of the engine does not make any difference, for the reason that the pinion will simply engage the gear wheel at a higher or lower point.

Myers Century Pitman Power Double Acting Force Pump.

PATENTED.

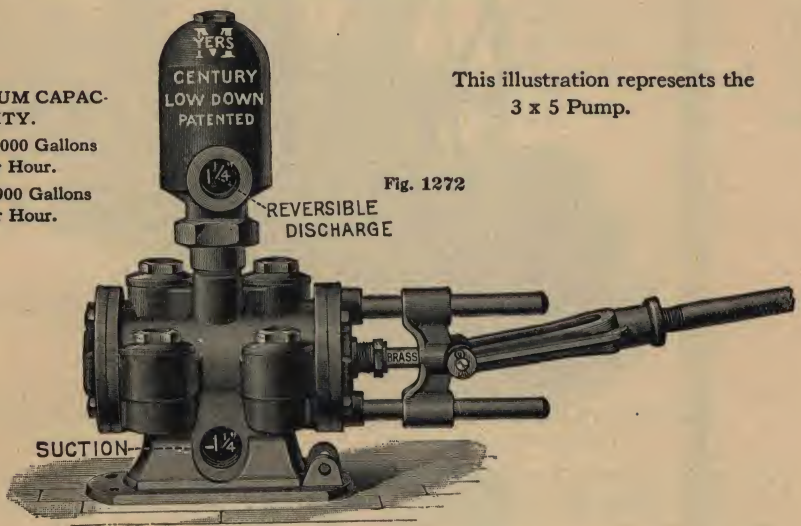
With Brass Lined Cylinder, Brass Piston Rod, and Stub Pitman for Machine Power.

Will stand Working Pressure of 75 lbs.

MAXIMUM CAPACITY.

5 x 5, 2,000 Gallons per Hour.

3 x 5, 900 Gallons per Hour.



This illustration represents the 3 x 5 Pump.

Fig. 1272

Fig. 1272 represents the *Myers Century Pitman Power Double Acting Force Pump*, fitted with Stub Pitman, to be used with countershaft, or back geared engine, or other power. The valves are located directly under individual caps and can be removed without disturbing any other part of the pump, such as the discharge and suction pipes, cylinder heads, etc.

The valve seats and piston rod are brass, as specified in list. The piston rod is supported by a crosshead operating on two heavy steel rods, thus insuring perfect alignment in all cases.

Suction attached at either side. Discharge is direct from bottom of air chamber and can be run in any direction from pump.

PRICE LIST, Represented by Fig. 1272.

No. 454, Myers Century Pitman Power Double Acting Force Pump, 5 x 5 inch cylinder, brass lined, brass seats, brass valves rubber faced, suction and discharge 2 inch.
Price .....(*Pole*).. **$38.00**

No. 455, Myers Century Pitman Power Double Acting Force Pump, 4 x 5 inch cylinder, brass lined, brass seat with rubber faced valves, suction and discharge 2 inch.
Price .....(*Telson*).. **31.00**

No. 456, Myers Century Pitman Power Double Acting Force Pump, 3 x 5 inch brass lined cylinder, brass grid valve seats, hard rubber valves with spring, suction and discharge 1¼ inch.
Price .....(*Reckar*).. **25.00**

HIGH DUTY PUMP, 200 POUNDS PRESSURE.

No. 458, Myers Century Pitman Power Double Acting Force Pump, with 2 x 5 inch removable brass cylinder, bevel ground brass valves and seats, hemp packed plunger, suction and discharge 1 inch.
Price .....(*Palaver*).. **$25.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Double Acting Pitman Power Force Pump.

PATENTED.

With 6 inch Brass Lined Cylinder and Stub Pitman for Machine Power.

Has 10 inch Stroke.

Maximum Capacity 5800 Gallons per hour when Running at 40 Strokes per minute, Discharging Water at the Pump, and 3600 Gallons per hour at a Speed of 25 Revolutions per minute.

Fig. 1195

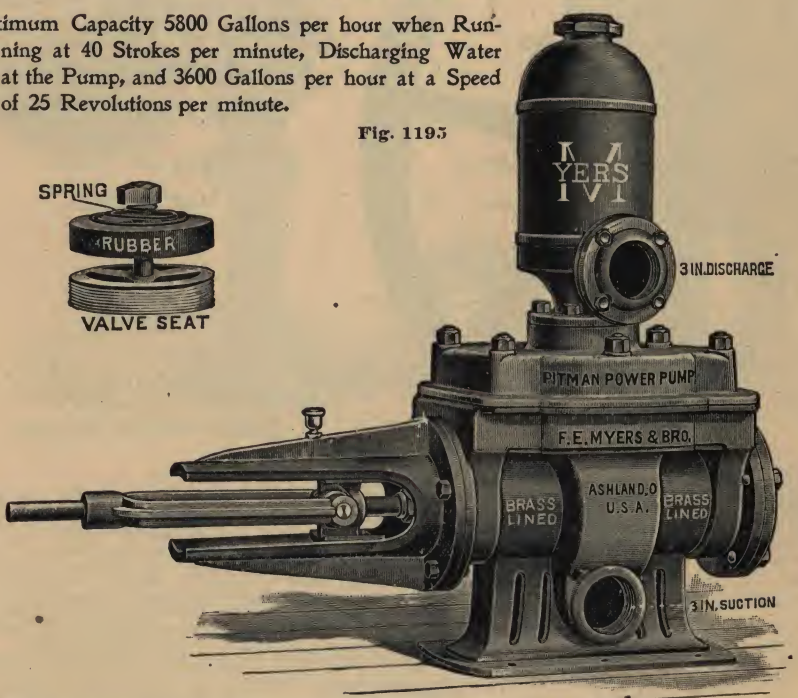


Fig. 1195 represents the Myers Pitman Power Force Pump, with stub pitman to be used in connection with back geared engine or other power. This pump is strong and substantially made, designed for heavy work; has 6 inch brass lined cylinder, with 10 inch stroke or less. It is fitted with brass valve seats of the Grid pattern, and rubber poppet valves of the High Duty pattern fitted with quick closing coil spring; has brass covered piston rod. The slide crosshead operates in bored ways, mounted directly on the cylinder head, which insures a perfect alignment under all conditions.

The valves are all located immediately under the top cap, and can easily be gotten at for repairing. The pump is fitted with 3 inch suction and discharge pipe; has full 3 inch openings, and direct water-ways.

This pump is not to be run at a higher speed than 40 revolutions per minute when discharging water at the surface, the speed to be reduced in accordance with the elevation to which the water is being pumped. An average speed of 25 revolutions per minute is recommended.

It is guaranteed to elevate water 125 ft. perpendicularly, or an equivalent pressure, when properly piped and not restricted, and operated at a speed of 25 strokes per minute.

Fig. 1195, No. 346, pumping 5800 gallons per hour.

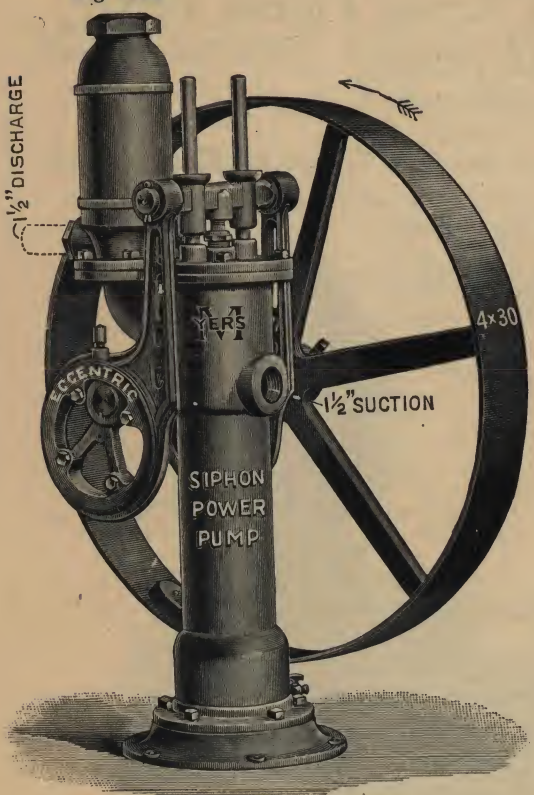
Feet Required	25	50	75	100	150
H. P. Required	1	2	3	4	5

The above is full capacity at 40 revolutions per minute. At over 100 feet elevation speed should be reduced accordingly. Capacity: 2.44 gallons each revolution of plunger.

PRICE LIST, Represented by Fig. 1195.

No. 346, Myers Double Acting Pitman Power Force Pump with 6 x 10 inch cylinder, with hemp packed plunger, complete as shown under Fig. 1195. Price .....*(Recline)*.. **$125.00**

Fig. 1226



The Myers Siphon Power Pump.

With 30 Inch Pulley and 4 Inch Direct Stroke with Patent Glass or Brass Valve Seat.

Designed to be Operated by Motor or Gas Engine.

Fig. 1226 illustrates the Myers Siphon Power Pump, built with eccentric fulcrum, and so constructed that all the working parts can be removed through the head of the pump, without disturbing the suction or discharge pipes or disarranging the pump or connections in any manner. It has drawn brass cylinder; brass valve cap, brass plunger and piston rod; brass packing box; air chamber with large capacity; check valve located in the discharge immediately under the air chamber. The construction is the very best and designed to cover every requirement made on a pump of this class. These pumps are strong and substantially constructed and are designed for pumping water from shallow wells (25 feet or less), and forcing it to any reasonable height. It is well adapted for pumping water into tanks situated on towers or in the tops of business blocks for supplying private water systems.

PRICE LIST, Represented by Fig. 1226.

Has Patent Glass or Brass Valve Seat (state which is wanted); Glass Valve Seat furnished regularly.

No. 372, Myers Siphon Power Pump with 2 inch brass cylinder; brass seat only tapped for 1½ inch pipe. Price.....(*Pab*).. **$56.00**

No. 373, Myers Siphon Power Pump with 2½ inch brass cylinder; suction and discharge tapped for 1½ inch pipe. Price.....(*Pac*).. **56.00**

No. 374, Myers Siphon Power Pump with 3 inch brass cylinder; suction and discharge tapped for 1½ inch pipe. Price.....(*Paca*).. **58.00**

No. 375, Myers Siphon Power Pump with 3½ inch brass cylinder; suction and discharge tapped for 1½ inch pipe. Price.....(*Pacate*).. **63.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Vertical Power Force Pump.

Direct Stroke.

Single Piece Crankshaft, Brass Boxes and Non-Leakable Bearings.

Fig. 1638

Fig. 1639

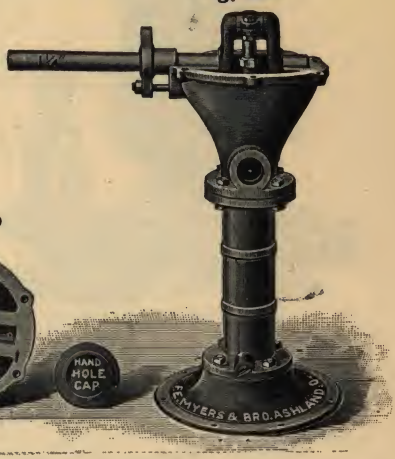


Fig. 1640

Floor Space, 16 x 22 Inches.

Fig. 1638 represents the Myers Vertical Force Pump, which is arranged for shallow wells, 25 ft. or less. It is a very compact and powerful suction and force pump designed to be driven by belt power.

One of the special features of this pump is the crankshaft and the manner of mounting it. Old style pumps of this class use a two piece crankshaft with a joint in the center, which is a very defective proposition and also a great weakness in the mechanical construction of the pump. In the Myers Pump the crankshaft is one solid piece with one packing joint only, which has a flanged follower with a large packing space. The opposite end of the crankshaft is recessed in between the body of the pump proper and the air chamber, having no outside packing. With this construction we are satisfied that we have the best article of this class on the market.

The crankshaft box is made of hard brass in two parts, so that the wear may be taken up. The piston rod is steel with a heavy locknut to prevent it from working loose. The top cap forms an air chamber, which is fitted with a handhole in the center. By removing the handhole cap all the wearing parts of the pump can be reached for oiling or repairs.

The pump is made in two sizes, 3 or 3½ inches.

The valve seat is glass with poppet rubber faced valve.

The pump is also built for deep well work. By removing the check valve in the base and the plunger in the main stand of the pump, and using a lower cylinder, the pump is adapted for deep well use, as listed under Nos. 344½ and 345½.

The pump is used for raising water from wells, cisterns, etc., and forcing it to an elevated tank, and is also largely used in creameries, cheese factories, cotton gins, shops, etc., for circulating purposes.

PRICE LIST, Represented by Fig. 1638.

No.	Diameter of Cylinder	Stroke	Capacity per Stroke	Suction	Discharge	Pulleys Each	Code	Price
340½	3 in. polished	5 in.	.15 gal.	1½ in. pipe	1½ in. pipe	16 x 4 in.	*Pugh*	$31.00
341½	3½ in. polished	5 in.	.20 gal.	1½ in. pipe	1½ in. pipe	16 x 4 in.	*Pugil*	34.00

PRICE LIST, for Deep Wells.

No. 344½, suction and discharge tapped for 1½ inch pipe, 5 inch stroke, without lower cylinder. Price ..... (*Puke*) .. **$31.00**

No. 345½, suction and discharge tapped for 1½ inch pipe, 5 inch stroke, without lower cylinder. Price ..... (*Puker*) .. **34.00**

For lower cylinder see list.

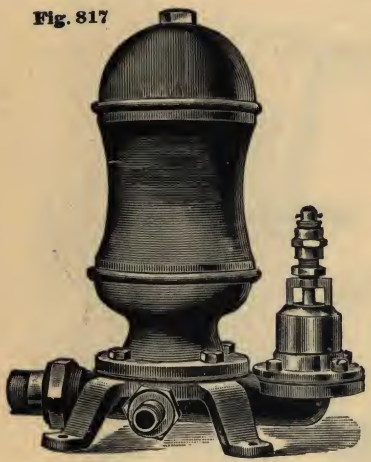
Any pump furnished with 24 x 4 inch pulleys, on order, for an additional charge of **$5.00** per pump.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Hydraulic Ram.

Fig. 817



For Elevating Water.

The annexed cut represents the Myers Hydraulic Ram. In locating, a pit should be dug in which the hydraulic ram may be placed, in order that it be not affected by the frost. From the pit a drain should be arranged to carry off the waste water.

A reservoir should be constructed, giving the greatest fall or head of water through the drive pipe to the ram.

Our rams are made of iron and bronze. The valve stem and case of the impetus or waste valve are always made of bronze, which is the best material for the purpose.

For further particulars concerning the hydraulic ram, we refer to our special circular on hydraulic rams.

Sizes and Prices.

No.	Quantity of water furnished by the reservoir to which the ram is adapted	Length the drive pipe should be	CALIBRE OF PIPE		Price
			Drive	Discharge	
2	½ to 2 gallons per minute	12 to 50 feet	¾ inch	½ inch	$ 14.00
3	1½ to 4 gallons per minute	12 to 50 feet	1 inch	½ inch	17.50
4	3 to 7 gallons per minute	12 to 50 feet	1½ inch	¾ inch	22.00
5	6 to 14 gallons per minute	25 to 100 feet	2 inch	1 inch	29.50
6	12 to 25 gallons per minute	25 to 100 feet	2½ inch	1¼ inch	55.00
7	20 to 60 gallons per minute	25 to 125 feet	4 inch	2 inch	102.00
8	30 to 120 gallons per minute	25 to 150 feet	6 inch	2½ inch	170.00

Table Showing Efficiency of the Hydraulic Ram.

Minimum fall of water, in feet, under which ram will effectively elevate water to height given below	2	2	2	3	4	5	6	7	8	10	12
Height, in feet, the water may be elevated	4	6	8	15	24	35	48	63	80	100	120
Length of drive pipe, in feet	12	12	12	15	20	30	40	50	60	75	95
Number of times the height or elevation of discharge is greater than the fall	2	3	4	5	6	7	8	9	10	10	10
Proportion of water elevated or discharged by the ram	$\frac{2}{7}$	$\frac{1}{5}$	$\frac{1}{7}$	$\frac{2}{17}$	$\frac{1}{10}$	$\frac{1}{12}$	$\frac{1}{14}$	$\frac{2}{31}$	$\frac{1}{17}$	$\frac{1}{18}$	$\frac{1}{20}$
Proportion of water wasted at the impetus valve by the ram	$\frac{5}{7}$	$\frac{4}{5}$	$\frac{6}{7}$	$\frac{15}{17}$	$\frac{9}{10}$	$\frac{11}{12}$	$\frac{13}{14}$	$\frac{29}{31}$	$\frac{16}{17}$	$\frac{17}{18}$	$\frac{19}{20}$
Per cent. of useful effect of power expended	80	78	75	72	68	62	57	53	48	43	38

N. B.—The *length* of the drive or supply pipe should not be less than ¾ of the height to which the water is to be raised, or five times the height of supply; it may, however, be longer. The hydraulic ram is *most efficient* when the *volume* of the *air chamber is equal to the volume of the discharge pipe.* The larger size rams, when an abundance of water is supplied, are adapted for elevating to the greatest heights and longest distances. This discharge pipe should not be longer than 10 times the height of discharge.

MYERS BULLDOZER WORKING HEADS

FOR DEEP WELLS

For lifting water from wells of greater depth than 20 feet and delivering it at the surface or forcing it to an elevated tank or reservoir, from which it can be distributed to any point desired either by gravity or air pressure.

Working heads do not include pumping cylinder as listed, for the reason that the size and style of cylinder varies in accordance with the well in which it is used.

Made in all sizes from 5 inch to 24 inch stroke, and weights from 100 to 2800 pounds.

The Defiance Working Head is recommended as better than any Pump Jack and Stand.

ELECTROTYPES FURNISHED FREE
For Catalog, Newspaper and Letterhead ADVERTISING.
We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

The Myers Power Working Head.

PATENTED.

Designed for Use with 1 H. P. Engine; Has Machine Cut Gear; Back Geared 5 to 1; 14 Inch Tight and Loose Pulleys.

Fig. 1569

Floor Space:
Width, 24 inches.
Length, 18 inches.
Height, 31 inches.

Fig. 1569 illustrates the Myers Working Head as built especially for use with 1 H. P. gasoline engine or other similar power. The Working Head is complete within itself, and was designed for operating in shallow wells; is used in connection with a common cylinder connected up the same as an ordinary pump stand.

SPECIFICATIONS.

Back geared 5 to 1, 5 inch stroke, machine cut gear, double guide rod, heavy brass stuffing nut with flange follower, 14 x 2½ inch tight and loose pulleys, discharge tapped for 1¼ inch pipe, suction tapped for 3 inch pipe. Can be used in tubular wells 3 inches in diameter, or the suction can be reduced by bushing to the size pipe required.

Capacity, 3 inch cylinder, 360 gallons per hour at 40 strokes per minute.

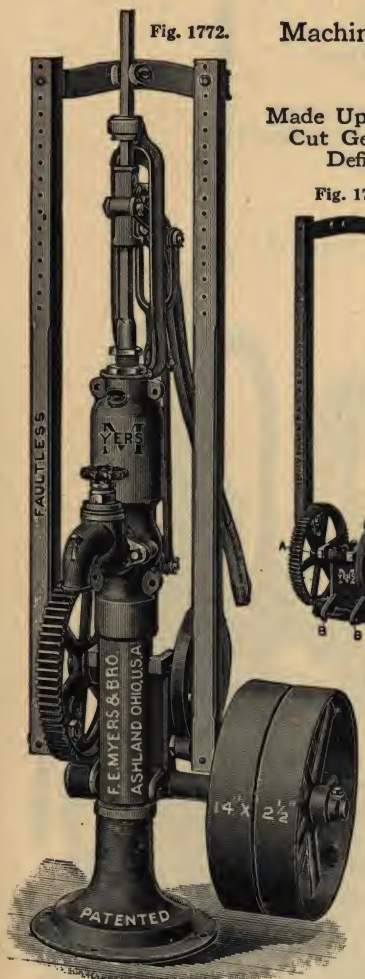
Pump Rod Connection, ½ x ⅜ inch.

PRICE LIST, Represented by Fig. 1569.

No. 387, Myers Power Working Head, built as shown in Fig. 1569. Price .....(*Prefix*)..**$38.00**
Can be used with Tubular or other Cylinder.
A 3 inch Tubular Plunger can be withdrawn through pump head.

The Myers Faultless Working Head.

Fig. 1772.



Machine Cut Gears. Back Geared 6 to 1.

Made Up of the Faultless Machine Cut Gear Pump Jack and the Defiance Pump Standard.

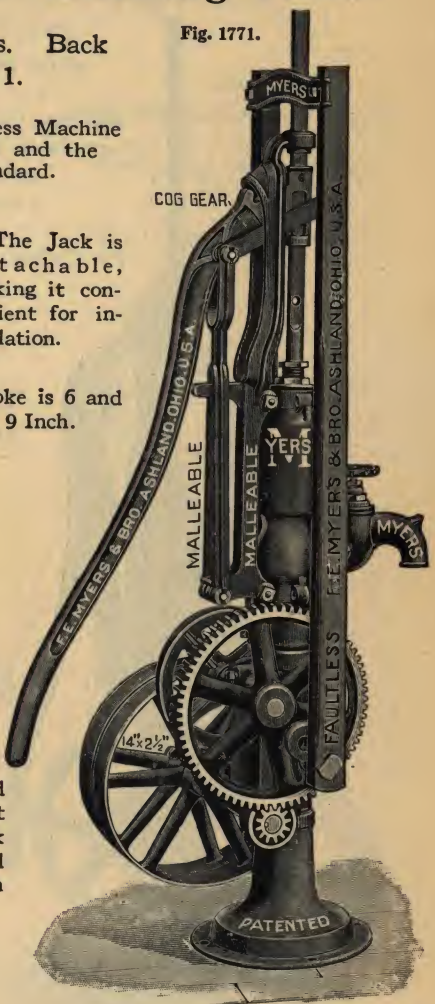
Fig. 1770.

The Jack is detachable, making it convenient for installation.

Stroke is 6 and 9 Inch.

Stand is Fitted with Cockspout and Has Back Outlet. Tapped for 1½ Inch Pipe.

Fig. 1771.



Figs. 1770, 1771 and 1772 illustrate the Myers Faultless Working Head and Pump Jack especially designed for convenience in installation, and for the promotion of the sale of better Pump Jacks and Working Heads. The Stand is our regular Defiance Pump Standard, with lugs cast on the side of the stand, which engage the clamps A and B on the Jack, Fig. 1770, the latter dropping down over the former, forming a connection which is bound securely in position by a push-bolt, making a very rigid construction. The fact that the Jack can be detached from the Stand permits the installation of the pump stand as an ordinary pump, after which the Jack is attached, doing away with the heavy work necessary in installing the ordinary power working head. Further, a dealer is enabled to sell the Defiance Stand, knowing that at any time he can equip it with the Faultless Jack, guaranteeing to his customer a first class job.

The Jack is made with machine cut gears, is back geared 6 to 1 and has 14 x 2½ inch pulleys.

Fig. 1772 shows a front view of the Jack and Stand, and also the manner in which the jack is locked onto the lugs of the Stand.

PRICE LIST, Represented by Figs. 1770, 1771 and 1772.

No. 433, Myers Faultless Working Head complete, as shown in Figs. 1771 and 1772, with 14x2½ inch tight and loose pulleys, cockspout and 1½ inch back outlet. Price..(*Teas*).. **$25.00**

No. 430, Myers Faultless Pump Jack only, Fig. 1770, without Stand machine cut gear, 14x2½ inch tight and loose pulleys. Price.....(*Teat*).. **12.50**

The Myers Defiance Working Head.

PATENTED.

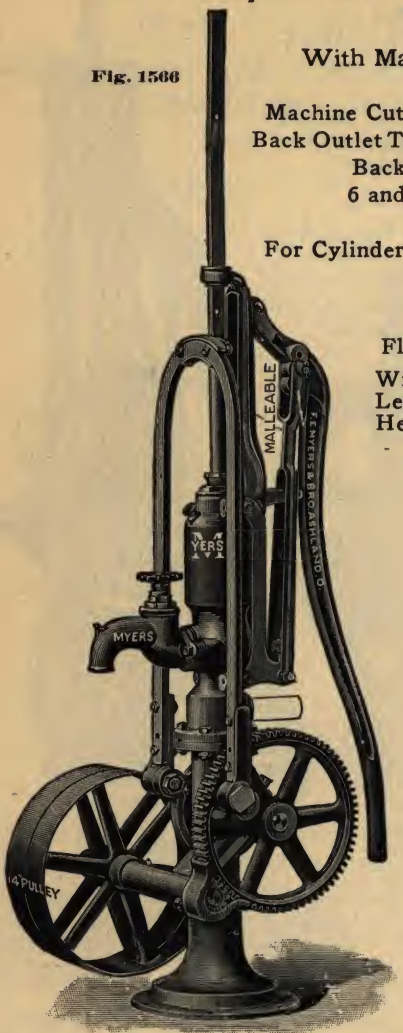
With Malleable Iron Head.

Machine Cut Gear and Cock Spout.
Back Outlet Tapped for 1½ Inch Pipe.
Back Geared 6 to 1.
6 and 9 Inch Stroke.

For Cylinder Capacity see Pages 19 and 20.

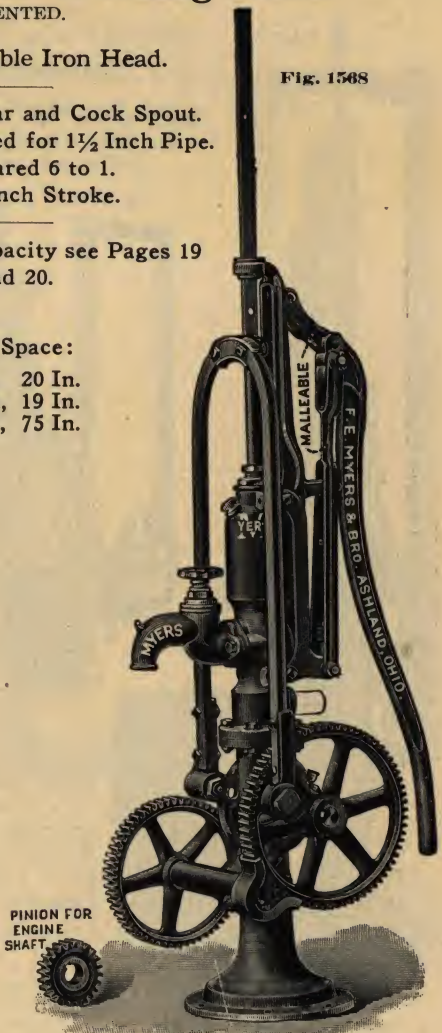
Floor Space:
Width, 20 In.
Length, 19 In.
Height, 75 In.

Fig. 1566



With Belt Pulleys.

Fig. 1568



With Gear Wheel and Pinion.

Figs. 1566 and 1568 represent the Myers Defiance Working Head, as made to be driven by belt or gear. The outfit is complete within itself; all mounted on one base, making it easy to set and connect up. It is adaptable to belt, hand or windmill power.

SPECIFICATIONS.

The gears are machine cut, with 1⅜ inch face; back geared 6 to 1. Shaft: Gear shaft 1¼ inch; belt shaft 1⅛ inch; gear shaft box babbitted; wrist pin 1¼ inch in diameter; stud pattern screwed into the gear wheel and held by lock nut; the stroke is 6 and 9 inches; pulleys 14 inches in diameter; piston rod 1⅛ inch; side arm ⅝ x 1 inch hard steel. **Pump Rod Connection ⅝ x ⅜ inch Rod and ⅜ inch Pipe.** Tapped for 2 inch pipe.

PRICE LIST, Represented by Figs. 1566 and 1568.

No. 388, The Myers Defiance Working Head, as represented by Fig. 1566. Price...(*Prefect*)..**$31.00**
No. 388G, The Myers Defiance Working Head, as represented by Fig. 1568, with gear wheel and pinion for engine shaft. Price.....(*Prefer*).. **33.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Defiance Working Head.

For Motor Drive.

PATENTED.

Fig. 1780

With Malleable Iron Head.

Machine Cut Gear and Cock Spout.

Back Outlet Tapped for 1½ Inch Pipe.

Back Geared 6 to 1.
6 and 9 Inch Stroke.

For Cylinder Capacity see pages 129 and 130.

Floor Space:
20 x 27.
75 Inches High,

Fig. 1780 represents the Myers Defiance Working Head, as made to be driven by motor. The outfit is complete within itself; all mounted on one base, making it easy to set and connect up. It is adaptable to belt, hand or windmill power.

SPECIFICATIONS.

The gears are machine cut, with 1⅜ inch face; back geared 6 to 1. Shaft: Gear shaft 1¼ inch; belt shaft 1⅛ inch; gear shaft box babbitted; wrist pin 1¼ inch in diameter; stud pattern screwed into the gear wheel and held by lock nut; the stroke is 6 and 9 inches; pulley 24 inches in diameter; piston rod 1⅛ inch. side arm ⅝ x 1 inch nard steel. **Pump Rod Connection ⅝ x ⅜ inch rod and ⅜ inch pipe.** Tapped for 2 inch pipe.

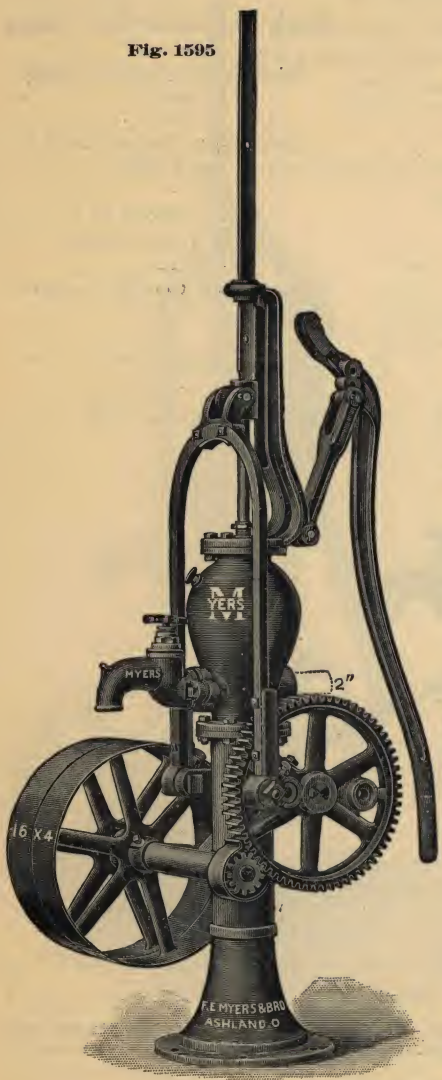
PRICE LIST, Represented by Fig. 1780.

No. 388M, The Myers Defiance Working Head, as represented by Fig. 1780. Price.....(*Tedder*).. **$31.00**
Motor and Belt not included.

The Myers Back Geared Working Head.

PATENTED.

Fig. 1595



Back Geared Five to One.

Tapped for 3 Inch Pipe.

Fitted With 5, 7½ and 10 Inch Stroke.

For Use With Belt Power, Wind or Hand Power.

---

16 Inch Tight and Loose Pulleys.

Machine Cut Gear.

Fig. 1595 illustrates the Myers Back Geared Working Head, which has been especially designed for use in wells up to 150 feet in depth, and can be used in connection with 2½ inch cylinder at this depth. Is adapted to cylinders up to 4 inch for shallow wells. Plunger up to 3 inches in diameter can be withdrawn through top of head.

By disconnecting the upper ends of the side arms the windmill bar can be attached direct to any ordinary windmill. It can also be used by hand power when desired.

For cylinder capacity see pages 19 and 20.

FLOOR SPACE.

27 x 20½ x 84" high.

Can be used on tubular wells, 3 inch pipe or less. The plunger can be drawn through head.

PRICE LIST, Represented by Fig. 1595.

No. 357, Myers Back Geared Working Head, tapped for 3 inch pipe. No cylinder....*(Rye)*..**$44.00**

No. 357½, Myers Back Geared Power Working Head, fitted with 3 inch Brass Body Cylinder in the stand of the pump as described above, for shallow wells. Price.....*(Recluse)*.. **53.00**

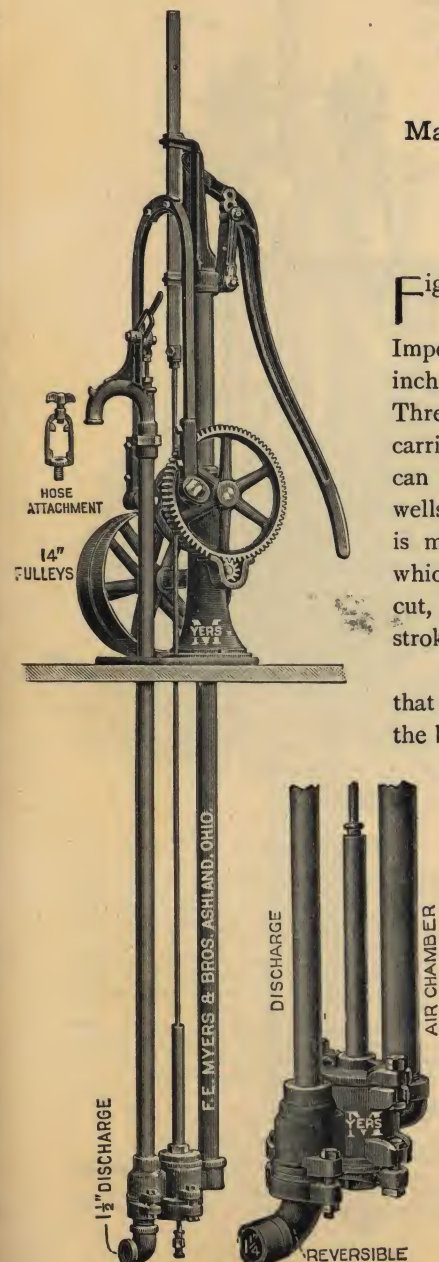
Pump Rod Coupling ⅝ x ⅜ Rod.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Imperial Working Head.

PATENTED.

Fig. 1584



With Underground Discharge, 4 Foot Set Length, Anti-Freezing.

Machine Cut Gears—Back Geared 6 to 1. 6 and 9 inch Stroke.

For Tubular or Open Wells.

Fig. 1584 illustrates the Myers Imperial Working Head, which is built on the general plan of the Imperial Underground Three-Way Pump, with 1½ inch air chamber and 1¼ inch discharge. The Three-Way is fitted for 1½ inch pipe, the crosshead carries a 3 inch pipe through which a 3 inch plunger can be removed. It is especially adapted to tubular wells. The jack forms a part of the pump head; is mounted directly on the base of the pump, to which it is securely bolted. The gears are machine cut, back geared 6 to 1. Has 6 inch and 9 inch stroke. Belt pulleys 14 inches in diameter.

NOTE—One special feature of this outfit is that the part forming the jack can be removed from the base of the pump, thus making it easy to handle in placing in the well. In fact, it is just as easy to install this working head as it is to set an ordinary Underground Three-Way Pump.

Is furnished with flange union at bottom, tapped for 2, 2½ or 3 inch pipe. State which is wanted.

Always fitted with 1¼ inch flange unless other size is specified.

Pump Rod Coupling ½ x ⅜ inch Rod.

For Cylinder Capacity see pages 19 and 20.

PRICE LIST, Represented by Fig. 1584.

No. 389, Myers Imperial Working Head with machine cut gear and 14 inch pulleys, as shown in Fig. 1584.
Price..... *(Proll)*..**$38.00**

Myers Bulldozer Power Working Head.

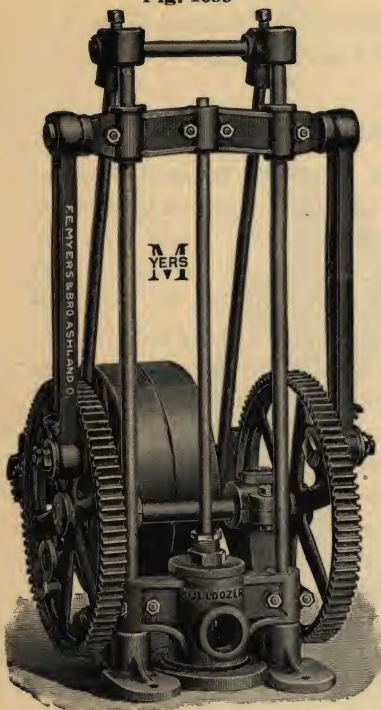
PATENTED.

With Machine Cut Gear.

Has 10, 12 and 14 Inch Stroke. Back Geared 7 to 1.
And 16 and 20 Inch Stroke. Back Geared 7½ to 1.

Especially Designed for Small Size Tubular Wells.

Fig. 1659



Floor Space: No. 391, 23 x 27 inches; No. 392, 23 x 33 inches.

Fig. 1666

Suction Pipe 3 in. Discharge Pipe 2 in.

Top of Piston Rod is threaded for ⅝ Pin for windmill.

Threaded ⅝ Inch Pin.

Figs. 1659 and 1666 represent the Myers Bulldozer Working Head, especially designed for small size tubular wells where a long stroke is required. Its construction insures great lifting power and capacity for the weight of the head. The arrangement is such that the power is applied direct to the piston from the two gear wheels, one located on each side of the main stand. By this construction we do away with side motion and wear and have a direct lift on the upstroke.

The well pipe is carried direct on the pump head, which is securely bolted to the upright steel guides. Plungers up to 3 inches in diameter can be withdrawn through the top of the pump without even removing the belt. The piston rod is connected direct to the split crosshead, which can be taken off by removing four bolts.

The entire height of the stand is 42 inches; the width 23 inches, and length 27 inches. Has tight and loose pulleys, 16 inch x 3 inch. Gears and pinions are machine cut, and of sufficient size to stand the work. Stroke 10, 12 and 14 inch, adjustable. Boxes are split and babbitted.

Fig. 1666 shows head dismantled for withdrawing plunger—monkey wrench only tool needed.

PRICE LIST, Represented by Fig. 1659.

No. 391, Myers Bulldozer Power Working Head, with 10, 12 and 14 inch stroke, 16 inch x 3 inch tight and loose pulleys, suction tapped for 3 inch pipe, can be bushed to smaller size. Price .....(*Punta*).. **$75.00**

No. 392, Myers Bulldozer Power Working Head, similar to Fig. 1659, back geared 7½ to 1, tapped for 3 inch pipe, 16 and 20 inch stroke, 16 x 3 inch pulleys. Price...(*Teau*).. **100.00**

For cylinder capacities see pages 19 and 20.

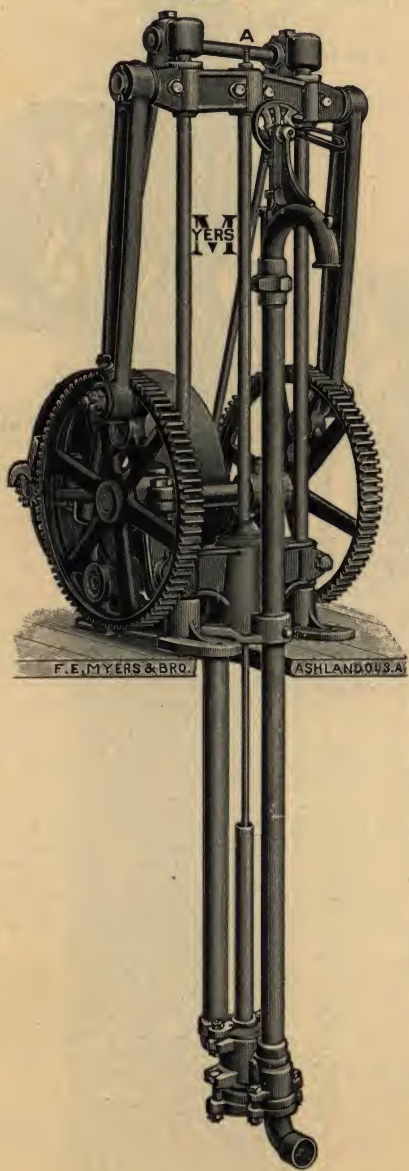
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Bulldozer Power Working Head.

PATENTED.

Anti-Freezing.

Fig. 1839.



With Machine Cut Gear

No. S391 Head Has 10, 12 and 14 Inch Stroke. Back Geared 7 to 1.
No. S392 Head Has 16 and 20 Inch Stroke. Back Geared 7½ to 1.

Especially Designed for Small Size Tubular Wells.

Suction Pipe 3 Inch. Can Be Bushed to Smaller Size. Discharge Pipe 2 Inch.

Three-Way Discharge. 1½ Inch Rod Coupling.
½ Inch Rod Thread.

Fig. 1839 represents the Myers Bulldozer Working Head as built for anti-freezing work. The water distributing parts are located 4 feet below the surface, which prevents freezing.

The Working Head proper is exactly the same as Fig. 1659 with the extension attached. The one extension pipe forms the air chamber. The other extension pipe is used for a discharge at the pump. The lower section is fitted with a 3-way discharge valve the same exactly as used on our Imperial Underground 3-Way Pump. All parts being bolted together can be removed with an ordinary wrench. The anti-freezing extension is fitted with 1¼ inch plunger tube with double leather plunger, making a very convenient job, particularly in installation, as the anti-freezing extension is an attachment that can be removed from the working head proper. This avoids the objectionable feature of other pumps of this class. Top of Piston Rod (marked A) is threaded to attach wind mill connection. (⅝" Pin.)

PRICE LIST, Represented by Fig. 1839.

No. S391, Myers Bulldozer Power Working Head with Anti-freezing Set Length. Has 10, 12 and 14 inch stroke; 16 x 3 tight and loose pulleys. Suction tapped for 3 inch or smaller pipe. State what size well pipe is to be used. Price.....(*Tester*)..**$88.00**

No. S392, Myers Bulldozer Power Working Head with Anti-freezing Set Length. Has 16 and 20 inch stroke; 16 x 3 tight and loose pulleys. Suction or well pipe 3 inches in diameter or smaller. State size wanted. Price.....(*Testis*)..**113.0C**

Myers Bulldozer Power Working Head.

Fig. 814

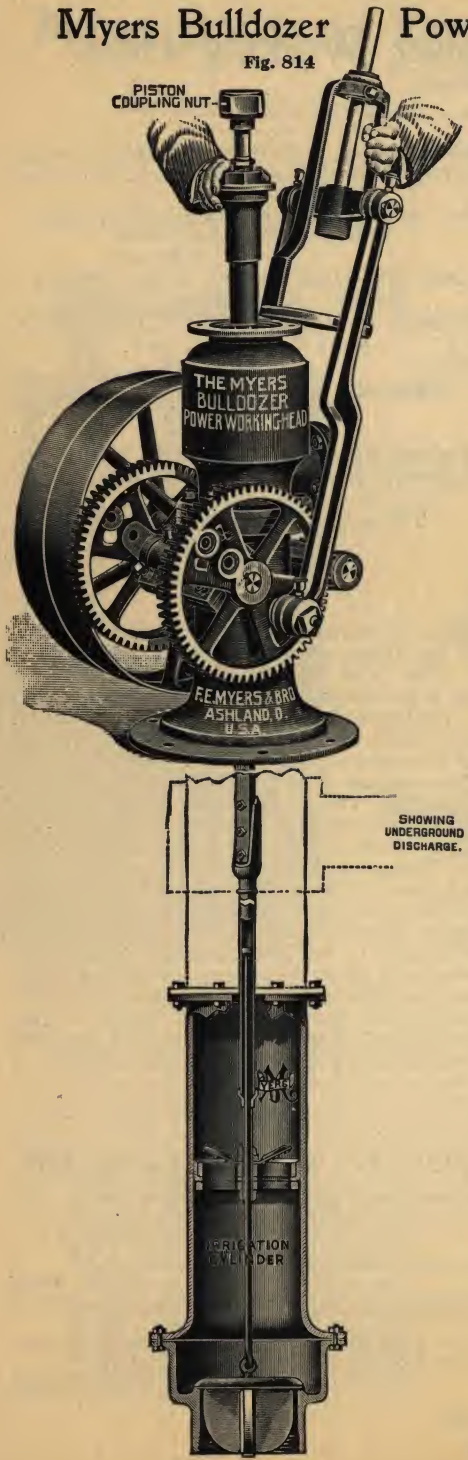
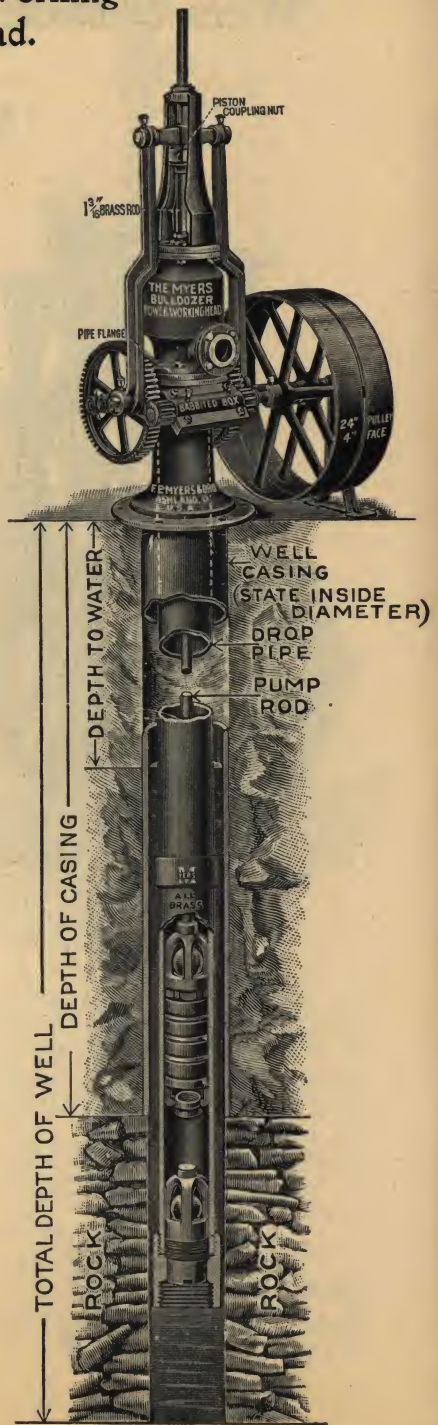


Fig. 1599



Myers Bulldozer Power Working Head.

PATENTED.

With Machine Cut Gear.

Back Geared 5 to 1.

Has Five, Seven and One Half, and Ten Inch Stroke.

Discharge 2½ or 3 Inches.

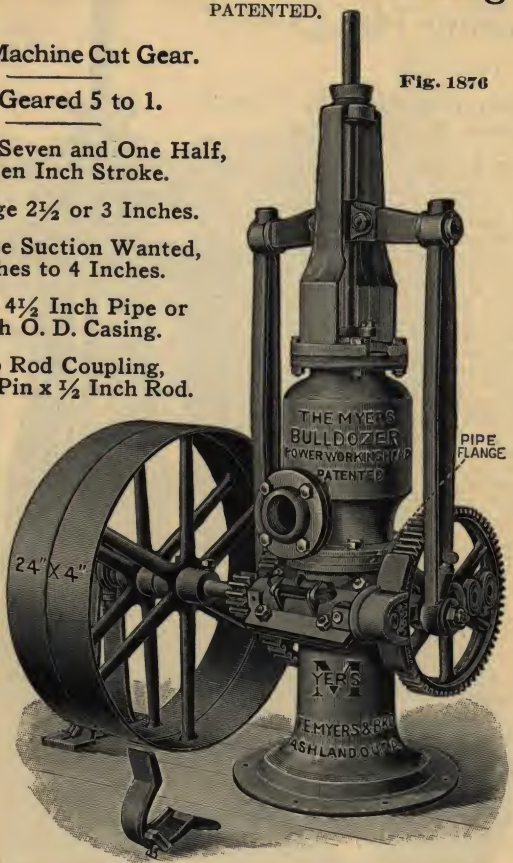
State Size Suction Wanted, 2 Inches to 4 Inches.

Special 4½ Inch Pipe or 5 Inch O. D. Casing.

Pump Rod Coupling, ⅞ Inch Pin x ½ Inch Rod.

For Cylinder Capacity See Pages 19 and 20.

Fig. 1876



Entire Height, 59 Inches. Floor Space, 36 x 26 Inches.

This working head is built especially for deep well work. Its construction insures great *lifting power, strength and capacity.* The arrangement is such that the power is applied direct to the piston from the two drive wheels, one located on each side of the main stand. By this construction we do away with side motion and wear.

The gears are located to one side, so that the work is done on the direct upward motion the piston passing down on the angle. This insures great lifting power and light wear. All boxes are parted and babbitted. Has outer shaft bearer with universal adjustable box; has steel pinions.

This working head is so constructed that by uncoupling the piston (see coupling nut in cut) and removing the piston rod, a 4 inch plunger can be withdrawn through the head (see Fig. 814). The well pipe is attached to a pipe flange located below the air chamber, hence any size pipe, from 2 inch pipe to 4¼ inch casing can be used by changing the flanges. The pipe can be withdrawn through the base.

Will raise water 250 feet. Should be run not over 35 revolutions per minute and less on deep wells.

Speed, Elevation and Horse Power required for Fig. 1876 under different conditions.

Diameter Cylinder . .	2½ in.	3 in.	3½ in.	4 in.	4½ in.	5 in.	6 in.
Feet Elevation	300	250	200	150	125	100	90
H. P. Required	2	2	2	2¼	2½	2¾	3

Speed: 5 inch Stroke, 40 Rev.—7½ inch Stroke, 26 Rev.—10 inch Stroke, 20 Rev. of Plunger. Power based on 10 inch Stroke. For Capacity see Cylinder List.

PRICE LIST, Represented by Fig. 1876.

No. 359, Bulldozer Power Working Head, with 5, 7½ and 10 inch stroke, without cylinder or pipe (state size of well pipe to be used). Price.....*(Redeem)*..**$80.00**

Myers Bulldozer Power Working Head.

PATENTED

Rebuilt Throughout. Heavier Gears. Strength Increased Over Forty Per Cent.

This head is built especially for heavy, deep well work or a high elevation. The arrangement is such that the power is applied direct to the piston from the drive wheels—one located on each side of the main stand.

By this construction, side motion is done away with, and great lifting power, strength and capacity insured. The arrangement of the gears on the side permits the work being done on the direct upward motion of the piston rod. The boxes are all babbitted; has outer shaft bearer with universal adjustable box and steel pinions.

The working head is so constructed that by removing two bolts the crosshead is detached from piston rod when the head of the pump can be removed and the plunger up to 8 inch size withdrawn through the head of pump without disarranging any of the parts. The well pipe is supported by a flange immediately above the gear and below the air chamber. By use of different sized flanges, the working head is adapted for any size of pipe up to 8 inch or less. Plunger up to 8 inch size can be withdrawn through the base.

Will stand 100 pounds pressure. Should be run not over 35 revolutions per minute.

Fig. 1601

Machine Cut Gear. Back Geared 8 to 1.

Suction Flange 2 in. to 8 in.

State Size Wanted.

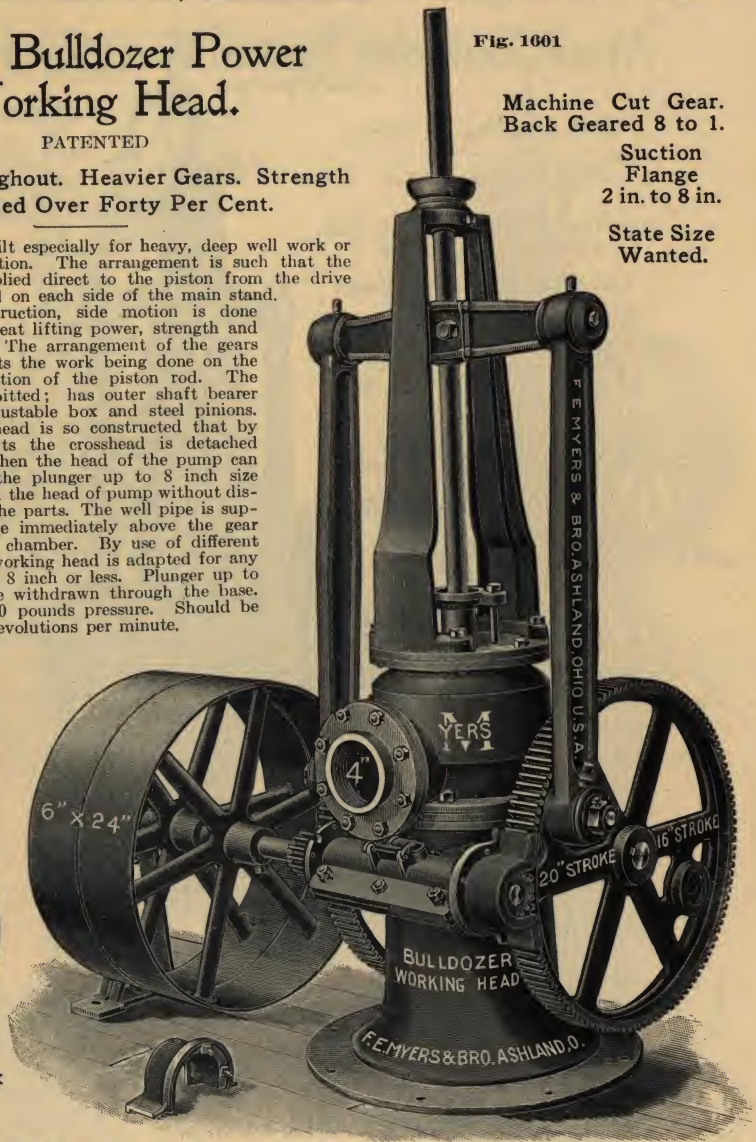


Fig. 1446

4 Inch Discharge. Piston Rod Coupling 1⅛ Inch Pin x ⅝ Inch Rod.

Floor Space, 47 x 38 inches; Entire Height on Long Stroke, 82 inches.

Speed, Elevation and Horse Power required for Fig. 1601 under different conditions.

Diameter of Cylinder	2½ in.	3 in.	3½ in.	4 in.	4½ in.	5 in.	6 in.	7 in.	8 in.
Feet Elevation	300	250	200	150	125	100	90	75	50
H. P. Required	2¼	2½	3	3¼	3¼	3½	3¾	4	5

Speed—16 inch stroke, 25 rev.; 20 inch stroke, 20 rev. of plunger.
Power based on 20 inch stroke. For capacity see cylinder list, pages 19 and 20.

PRICE LIST, Represented by Fig. 1601.

No. 364, Bulldozer Power Working Head, with 16 and 20 inch stroke, 6 x 24 inch pulleys, machine cut gear, without cylinder or pipe (state size of well pipe to be used.)
Price .....*(Redeemed)*.. **$188.00**
Air Chamber for discharge pipe, Fig. 1446, extra. Price.....*(Pomey)*.. **19.00**

The Myers Bulldozer Working Heads.

PATENTED.

We Originated the Moderate Priced Working Head.

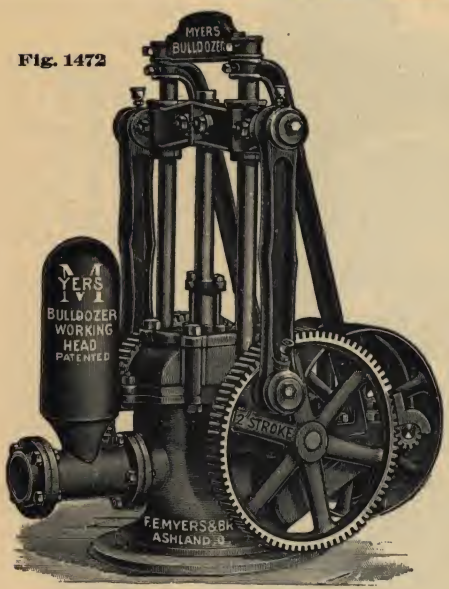
The above cuts illustrate a few of the comparative sizes of the Myers Bulldozer Working Head, which we build in all sizes from a 5 inch stroke to a 24 inch stroke, and are designed to be used for deep well work and for pumping water to an elevation above the working head. We cover the entire field.

The Myers Bulldozer Power Working Head.

PATENTED.

12 and 20 Inch Stroke. Back Geared 7 to 1.

Fig. 1472



Represents No. 384.

Pump Rod Coupling { No. 383, 1⅛ inch pin. / No. 384, ⅞ inch pin.

FLOOR SPACE.

	384	383
Width	26 in.	34 in.
Length	30½ in.	46 in.
Height	43½ in.	58 in.

Air Chamber adds 8 in.

PATENTS.

No. 673,282, April 30th, 1901.
No. 928,234, July 13th, 1909.
No. 930,405, Aug. 10th, 1909.
No. 930,981, Aug. 10th, 1909.

Other patents pending.

Fig. 1472 represents the Myers Bulldozer Power Working Head as built with 12 and 20 inch stroke, designed especially for heavy work. The entire pump is mounted on a substantial base, locating the gears, belt pulleys and discharge close to the ground, thus insuring the greatest strength.

The construction is such that by removing four nuts the upper cap can be removed. This in connection with the split crosshead, which allows of the side arms being dropped forward, permitting the plungers being withdrawn through the pump head without disturbing discharge pipe or even removing the belt, will be appreciated by everyone.

The installation of the pump is very convenient, as the base is placed directly over the well, the upper cap removed and screwed to the well pipe, after which it is dropped through the base of the pump into place; the flange carrying the stuffing box is placed immediately over it and the entire job bolted together by the four ¾ inch bolts, making it complete in every particular.

To withdraw the plunger the only thing that is necessary is to remove the four bolts in the crosshead, dropping same forward onto the air chamber; then remove the four nuts that hold the main cap. This permits of all the working parts being withdrawn through the head.

SPECIFICATIONS.

The crosshead is made in halves with a 2 inch turned wrist pin on either end.

The crosshead guides for posts are made of 1½ inch steel shafting, thoroughly braced between the upper end and the frame of the pump head.

The pinions are cold rolled steel, machine cut.

Back geared 7 to 1.

Shafting steel.

The gear wheels are machine cut. The 12 inch stroke head has 1¾ inch face gear; the 20 inch stroke head has 2¼ inch face gear.

Pulleys: the 12 inch stroke head has 16 x 4 inch pulleys, tight and loose; the 20 inch stroke head has 24 x 5 inch pulleys, tight and loose.

Size Pipe: The 12 inch stroke head is tapped for 4 inch suction pipe, discharge 3 inch; the 20 inch stroke head is tapped for 6 inch suction pipe, discharge 4 inch.

For cylinder capacity, see pages 19 and 20.

PRICE LIST, Represented by Fig. 1472.

No. 384, Myers Bulldozer Power Working Head with 12 inch stroke, 16 x 4 inch tight and loose pulleys, *without air chamber, cylinder or pipe*, tapped for 4 inch pipe, (can be tapped 5 inch and bushed for smaller size. (State size of well pipe to be used.)
List ..... (*Polly*).. **$125.00**
Air Chamber for the above, extra..... (*Polt*).. **12.50**

No. 383, Myers Bulldozer Power Working Head with 20 inch stroke, 24 x 5 inch tight and loose pulleys, *without air chamber, cylinder or pipe*, tapped for 6 inch pipe and bushed for smaller size. (State size of well pipe to be used.) Discharge 4 inch.
List ..... (*Pome*).. **231.00**
Air Chamber extra adds to list..... (*Pomey*).. **19.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Bulldozer Power Working Head.

As Fitted Complete with Motor and Sub-Base

Any of this style Bulldozer Working Heads can be furnished complete with sub-base and gear wheel for motor.

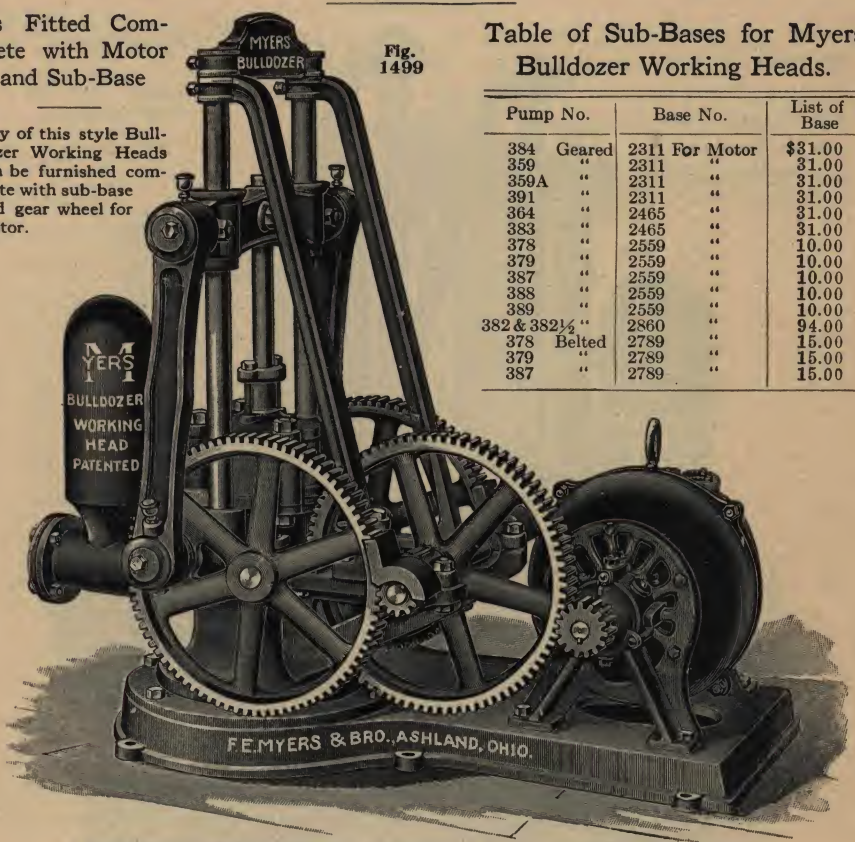


Fig. 1499

Represents the 20 inch stroke head, mounted on cast base and connected to motor.

Table of Sub-Bases for Myers Bulldozer Working Heads.

Pump No.	Base No.	List of Base
384 Geared	2311 For Motor	$31.00
359 "	2311 "	31.00
359A "	2311 "	31.00
391 "	2311 "	31.00
364 "	2465 "	31.00
383 "	2465 "	31.00
378 "	2559 "	10.00
379 "	2559 "	10.00
387 "	2559 "	10.00
388 "	2559 "	10.00
389 "	2559 "	10.00
382 & 382½ "	2860 "	94.00
378 Belted	2789 "	15.00
379 "	2789 "	15.00
387 "	2789 "	15.00

Fig. 1499 represents the Myers 20 inch stroke Bulldozer Power Working Head as mounted complete with 3 horse power motor. Both the working head and the motor are securely bolted to a substantial base. This working head and motor, when mounted in the above manner, must be fitted up at the factory and shipped out as a complete outfit. Prices on application.

No. 383, Fig. 1472.

Speed, Elevation and H. P. required under different conditions.

Diameter of Cylinder	2½"	3"	3½"	4"	4½"	5"	6"	7"	8"
Feet Elevation	300	250	200	150	125	100	90	75	50
H. P. Required	2¼	2½	3	3¼	3¼	3½	4	5	6

Speed: 20 revolutions of plunger. For capacity see Cylinder list.

No. 384, Fig. 1472.

Diameter of Cylinder	2½"	3"	3½"	4"	4½"	5"	6"
Feet Elevation	300	250	200	150	125	100	90
H. P. Required	2	2	2	2¼	2½	2¾	3

Speed: 25 revolutions of plunger. For capacity see Cylinder list.

PRICE LIST, Represented by Fig. 1499.

No. 384M, Bulldozer Working Head with 12 inch stroke, fitted with gear wheel and pinion.....*(Pose)*
No. 383M, Bulldozer Working Head with 20 inch stroke, fitted with gear wheel and pinion.....*(Posture)*

Sub-base and motor extra. Price on application.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Bulldozer Power Working Head.

PATENTED.

Machine Cut Gear.

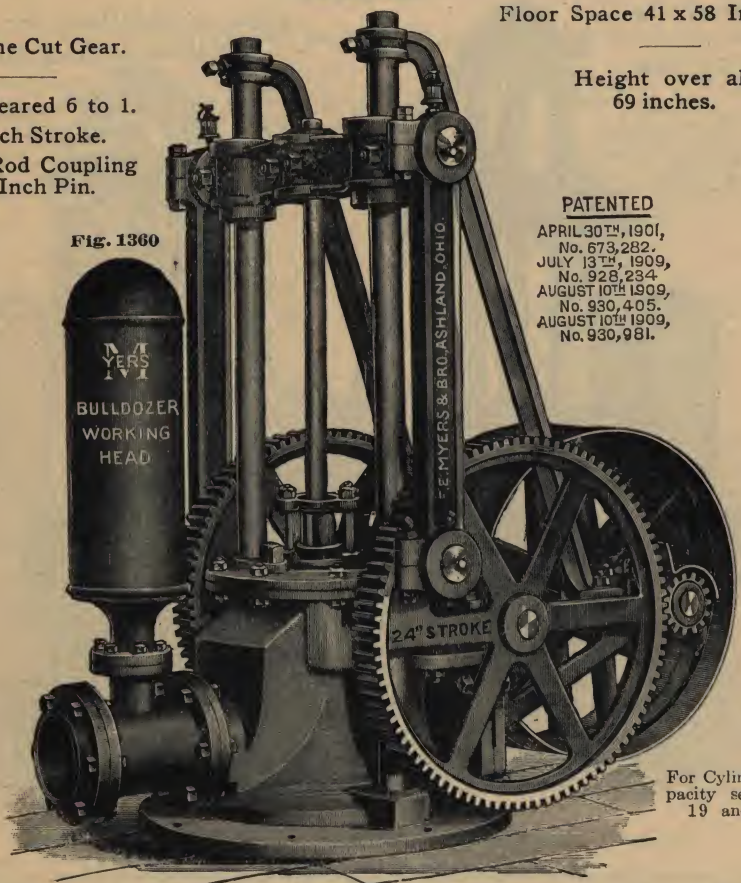
Back Geared 6 to 1.
24 Inch Stroke.
Pump Rod Coupling
1½ Inch Pin.

Floor Space 41 x 58 Inches.

Height over all
69 inches.

PATENTED
APRIL 30TH, 1901,
No. 673,282.
JULY 13TH, 1909,
No. 928,234.
AUGUST 10TH 1909,
No. 930,405.
AUGUST 10TH 1909,
No. 930,981.

Fig. 1360



For Cylinder Capacity see pages 19 and 20.

Fig. 1360 represents the Myers Bulldozer Power Working Head, supported with braces, and adapted for heavy deep well work. This head is built in accordance with our exclusive patents, which control a construction in which the piston rod is driven from the crosshead through two lines of gears and pinions, direct from the belt pulley, thus relieving the machinery from all side strain and liability to breakage. In this construction the heavy lift is in practically a direct line, which subjects the head to the least possible strain. It is the only construction permitting of the withdrawal of the piston and buckets, or the entire pipe line, up through the base, without disturbing the belt or the discharge line, or moving the fixed position of the base. The Working Head, as a whole, is most complete in every particular, being worked out to the most minute detail, the main object being great strength and simplicity. The entire head is mounted on one base.

Speed, Elevation, and Horse Power required, for Fig. 1360, under different conditions.

Diameter of Cylinder	2½	3	3½	4	5	6	7	8	10
Feet Elevation	600	500	400	300	250	175	125	75	50
H. P. Required	5	6	6½	7	8	9	9	10	10

PRICE LIST, Represented by Fig. 1360.

No. 382, Bulldozer Power Working Head with 24 inch stroke, 6 x 30 inch tight and loose pulleys, without air chamber or tee, cylinder or pipe tapped regularly for 8 inch pipe (state size of well pipe to be used). List.....(*Palette*).. **$500.00**
Air Chamber for line pipe, Fig. 1329, without tee, extra. List.....(*Palfrey*).. **25.00**
Tee for Air Chamber on line pipe, extra.....(*Parade*).. **12.50**
The Tight Pulley weighs about 350 lbs. and acts as balance wheel.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Bulldozer Power Working Head.

PATENTED.

Back Geared 6 to 1. 24 Inch Stroke. Floor Space 40 x 57 Inches. Entire Height over all 5 Feet 7 Inches.

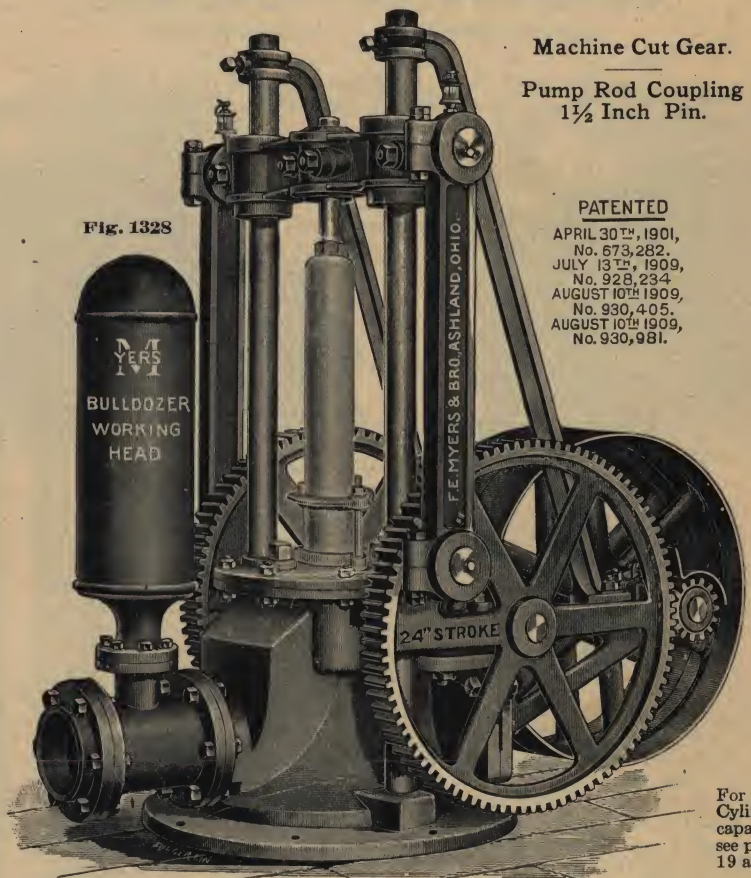


Fig. 1328

Machine Cut Gear.

Pump Rod Coupling 1½ Inch Pin.

PATENTED

APRIL 30TH, 1901, No. 673,282.
JULY 13TH, 1909, No. 928,234
AUGUST 10TH 1909, No. 930,405.
AUGUST 10TH 1909, No. 930,981.

For Cylinder capacity see pages 19 and 20.

Fig. 1328 illustrates the *Bulldozer Power Working Head* with 24 inch stroke, fitted with *Differential Plunger* and air chamber on line pipe. The advantage of the differential plunger is that it balances the piston rod on the down stroke, and causes the pump to run more steady under pressure. It is outside packed. This is an extra, and charged for in addition to the regular working head. The air chamber and tee on the line pipe are also extras.

Speed, Elevation, and Horse Power required, for Fig. 1328, under different conditions.

Diameter of Cylinder	2½	3	3½	4	5	6	7	8	10
Feet Elevation	600	500	400	300	250	175	125	75	50
H. P. Required	5	6	6½	7	8	9	9	10	10

PRICE LIST, Represented by Fig. 1328.

No. 382½, Bulldozer Power Working Head, with 24 inch stroke, 6 x 30 inch tight and loose pulleys, with differential plunger, without air chamber or tee, tapped regularly for 8 inch pipe (state size of well pipe to be used). List.....(*Pape*).. **$525.00**
Air Chamber for line pipe, Fig. 1329, without tee, extra. List.....(*Palfrey*).. **25.00**
Tee for Air Chamber on line pipe, extra. List.....(*Parade*).. **12.50**
The tight pulley weighs about 350 lbs. and acts as balance wheel.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Deep Well Working Head.

Anti-Freezing.

All Moving Parts Enclosed. Machine Cut Gear.
Back Geared 7 to 1. 6 Inch Stroke.

Power Required, ½ H. P. Motor or 1 H. P. Gas Engine.
For Pressure Tank Work.

Fig. 1946

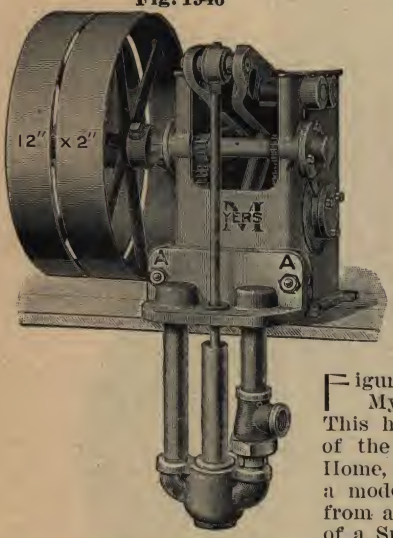
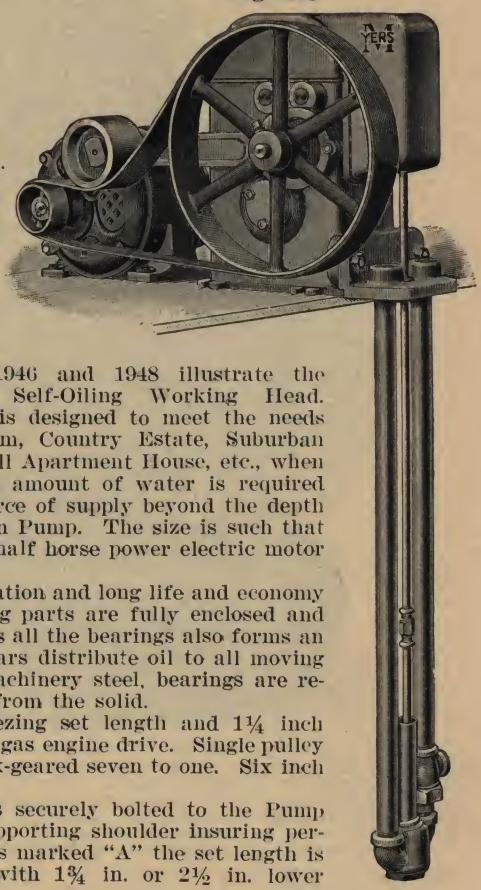


Fig. 1948



Figures 1946 and 1948 illustrate the Myers Self-Oiling Working Head. This head is designed to meet the needs of the Farm, Country Estate, Suburban Home, Small Apartment House, etc., when a moderate amount of water is required from a source of supply beyond the depth of a Suction Pump. The size is such that it may be successfully operated by a one-half horse power electric motor or a one horse power gas engine.

With a view of securing safety in operation and long life and economy with a minimum of attention, all working parts are fully enclosed and run in oil. The main frame, which carries all the bearings also forms an oil reservoir. From this reservoir the gears distribute oil to all moving parts. Bearing shafts are high grade machinery steel, bearings are removable, gears and pinions machine cut from the solid.

Regularly fitted with 4 foot anti-freezing set length and 1¼ inch plunger tube. Tight and loose pulleys for gas engine drive. Single pulley and belt tightener for electric drive. Back-geared seven to one. Six inch stroke.

The 4 foot anti-freezing set length is securely bolted to the Pump Head fitting on a machined face with supporting shoulder insuring perfect alignment. By removing the two bolts marked "A" the set length is removed for installation. To be used with 1¾ in. or 2½ in. lower Cylinder.

Fig. 1946 illustrates the same Pump with the Gear Cover removed—*Shows Double Gears and Pinions;* also the Set length shortened up to permit its use on Tubular Wells where the Well Casing comes near the surface of the ground.

Fig. 1948 illustrates the Working Head connected with motor; also shows the Belt Tightener which swings direct from Pulley Shaft.

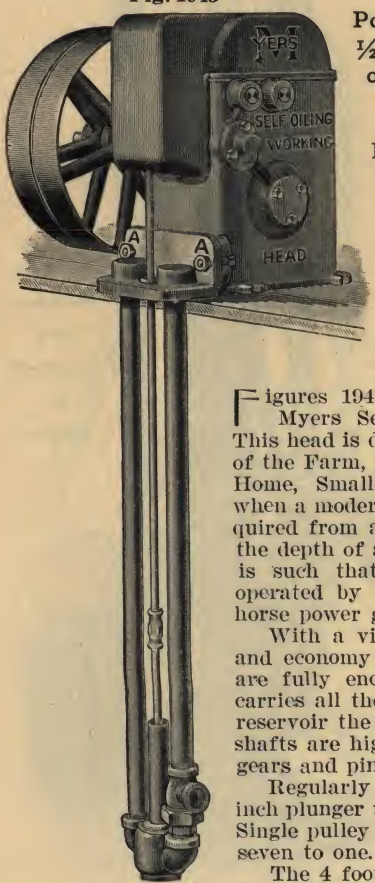
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Self-Oiling Deep Well Working Head.

Anti - Freezing.

All Moving Parts Enclosed. Machine Cut Gear.
Back Geared 7 to 1. 6 Inch Stroke.

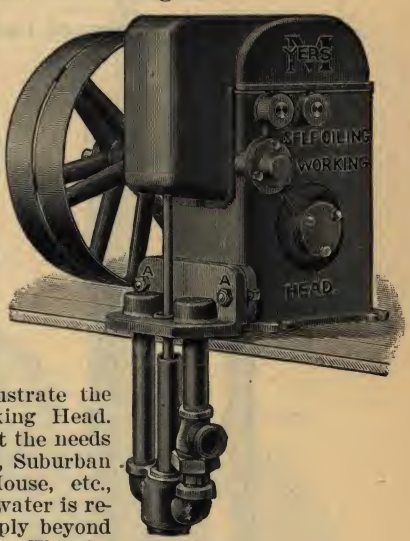
Fig. 1945



Power Required,
½ H. P. Motor
or 1 H. P. Gas
Engine.

For Pressure
Tank Work.

Fig. 1947



Figures 1945 and 1947 illustrate the Myers Self-Oiling Working Head. This head is designed to meet the needs of the Farm, Country Estate, Suburban Home, Small Apartment House, etc., when a moderate amount of water is required from a source of supply beyond the depth of a Suction Pump. The size is such that it may be successfully operated by a one-half horse power electric motor or a one horse power gas engine.

With a view of securing safety in operation and long life and economy with a minimum of attention, all working parts are fully enclosed and run in oil. The main frame, which carries all the bearings also forms an oil reservoir. From this reservoir the gears distribute oil to all moving parts. Bearing shafts are high grade machinery steel, bearings are removable, gears and pinions machine cut from the solid.

Regularly fitted with 4 foot anti-freezing set length and 1¼ inch plunger tube. Tight and loose pulleys for gas engine drive. Single pulley and belt tightener for electric drive. Back-geared seven to one. Six inch stroke.

The 4 foot anti-freezing set length is securely bolted to the Pump Head fitting on a machined face with supporting shoulder insuring a perfect alignment. By removing the two bolts marked "A" the set length is removed for installation. To be used with 1¾ in. or 2½ in. lower Cylinder.

Fig. 1947 illustrates the same Pump with the Set length shortened up to permit its use on Tubular Wells where the Well Casing comes near the surface of the ground.

PRICE LIST, Represented by Fig. 1945.

No. 650, The Myers Self-Oiling Working Head complete as shown in Fig. 1945. Price ..... (*Tilt*) .. **$50.00**
Fig. 214—1¾ in. x 14 in. all Brass Cylinder **8.25**
Fig. 214—2½ in. x 14 in. Brass Body Cylinder with Fig. 869 Plunger **7.75**

The Myers Pump Jack.

PATENTED.

MACHINE CUT GEAR.

Back Geared Six to One.

6 and 9 Inch Stroke. Can be Attached to Any Windmill Pump. For Use With Belt Power, Windmill or Hand Power.

Twelve Inch Tight and Loose Pulleys.

Fig. 1604

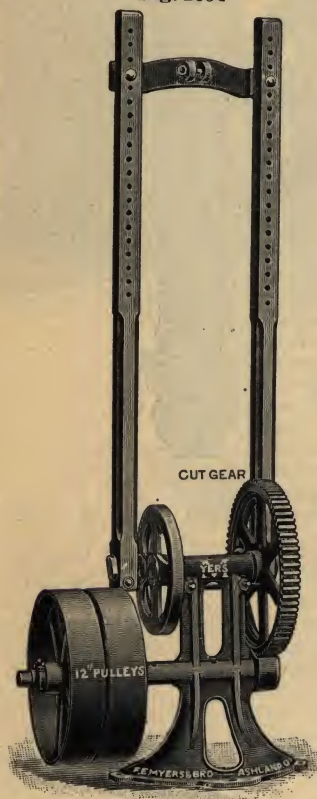


Fig. 1606

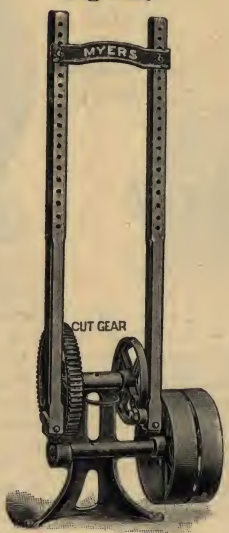
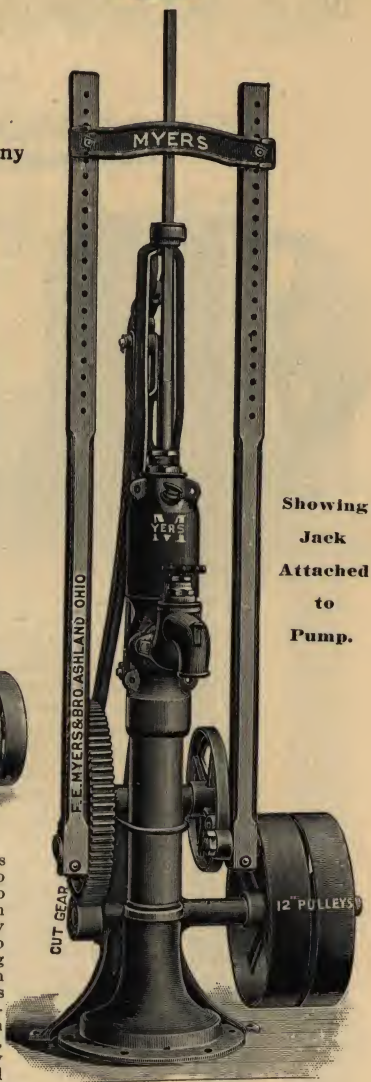


Fig. 1605



Showing Jack Attached to Pump.

Fig. 1604 represents the Myers Pump Jack, designed to be used in connection with any ordinary windmill head pump without disarranging the pump or pipes in any manner. It is mounted on a substantial circular base which surrounds the base, and is bolted securely to the platform and also clamped to the pump stand by means of a steel loop, thus making a most substantial job. The bolting to the platform prevents twisting of the pump stand, as is the case with the ordinary pump jack.

The gear and pinion are machine cut; shafting 1¼ inch and 1⅛ inch; the connecting arms are hard wood; the crosshead can be adjusted to suit any height stand; the wrist pins are turned steel, threaded and held in position by a heavy lock nut; the pulleys are 12 inches by 2½ inch.

We offer the Myers Pump Jack to the trade as being the best made, strongest and most complete device of its kind on the market.

Fig. 1605 shows the Jack attached to a pump stand.

Fig. 1606 is a small view of the Jack, showing the steel loop that clamps to the pump standard.

PRICE LIST, Represented by Fig. 1604.

No. 366, Myers Pump Jack, complete as shown in cut. Price.....(*Proxy*)..**$12.50**

The Myers Universal Pump Jack.

PATENTED.

Showing Jack Attached to Pump.

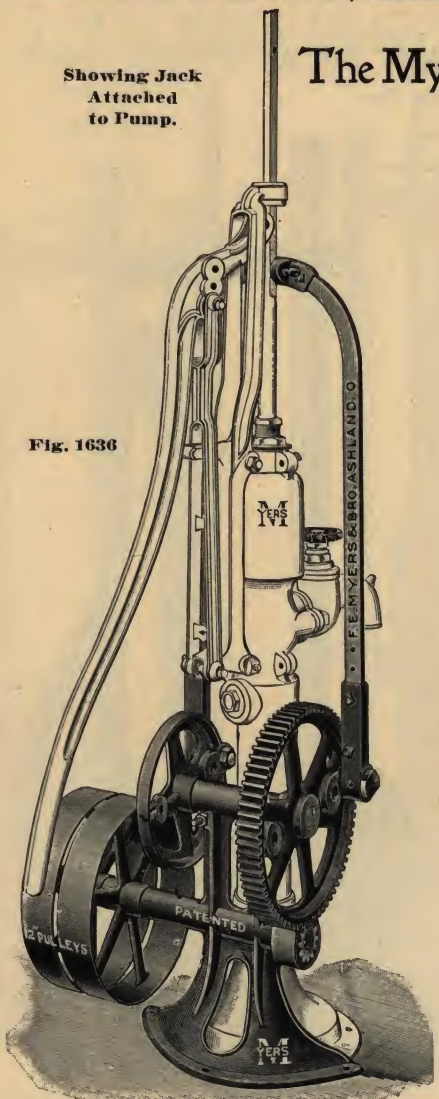


Fig. 1636

Back Geared 5 to 1.

Machine Cut Gear.

With 5, 7½ and 10 Inch Stroke. Can be Attached to any Windmill Pump. For use with Belt Power, Windmill or Hand Power.

Twelve Inch Tight and Loose Pulleys.

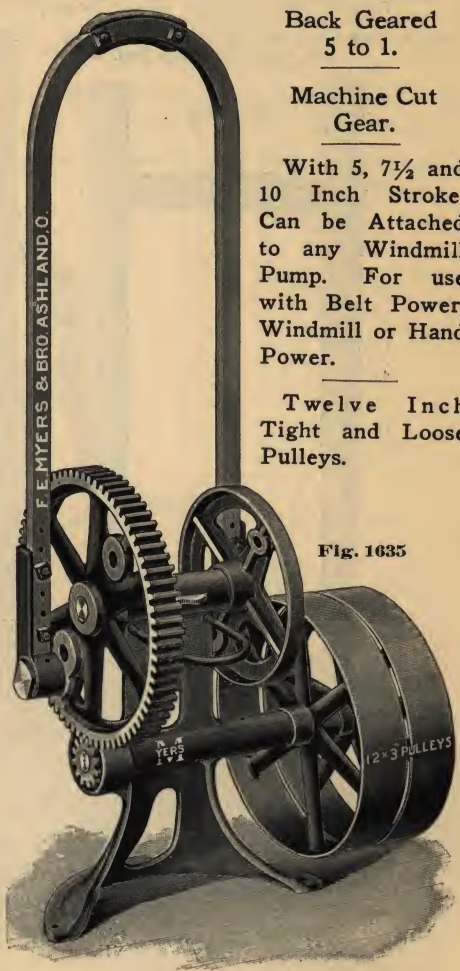


Fig. 1635

Figs. 1635 and 1636 represent the Myers Universal Pump Jack, designed to be used in connection with any ordinary windmill head pump without disarranging the pump or pipes in any manner. It is mounted on a substantial circular base which surrounds the pump stand, and bolted securely to the platform, and also clamped to the pump stand, making a most substantial job. We believe this to be a more practical device than the ordinary cheap jack now in use, which is bolted direct to the body of the pump stand only.

The Universal Jack is fitted with steel shafts and our regular Bulldozer machine cut gear wheel and pinion. The connecting arms are hard steel in one continuous piece with lifting strain against edge of steel, which greatly increases the strength. The wrist pins are turned steel, held in position by heavy bolts. The pulleys are 12 inches in diameter.

We offer the Universal Pump Jack to the trade as being the strongest and most complete device of its kind.

Fig. 1636 shows the jack attached to pump stand.

PRICE LIST, Represented by Fig. 1635.

No. 425, Myers Universal Pump Jack, complete as shown in cut, Fig. 1635. Price....(*Quell*)..**$15.00**

If wanted with long side arms to attach to Ratchet Head Pump, it must be stated on order.

The Myers Master Double Gear Pump Jack.

Double Gears and Pinions, Machine Cut.

PATENTED.

6 and 9 Inch Stroke. Back Geared 6 to 1.

Can be Attached to Any Style Windmill Pump. Extra Strong for Heavy or Deep Well Work.

Fig. 1684

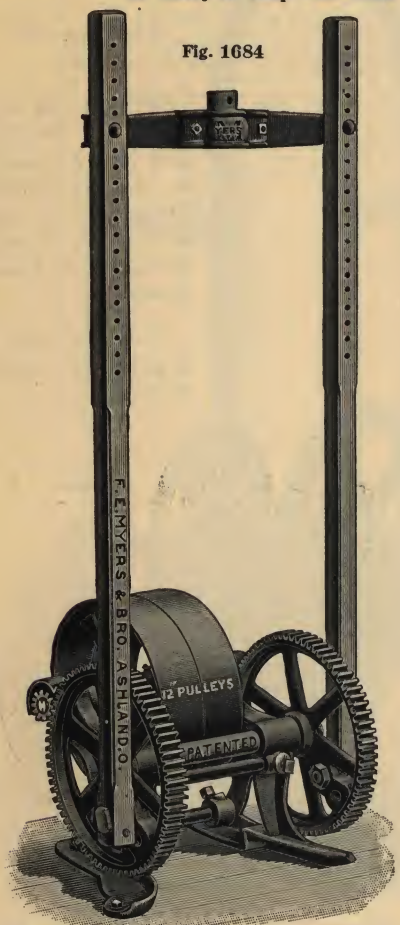
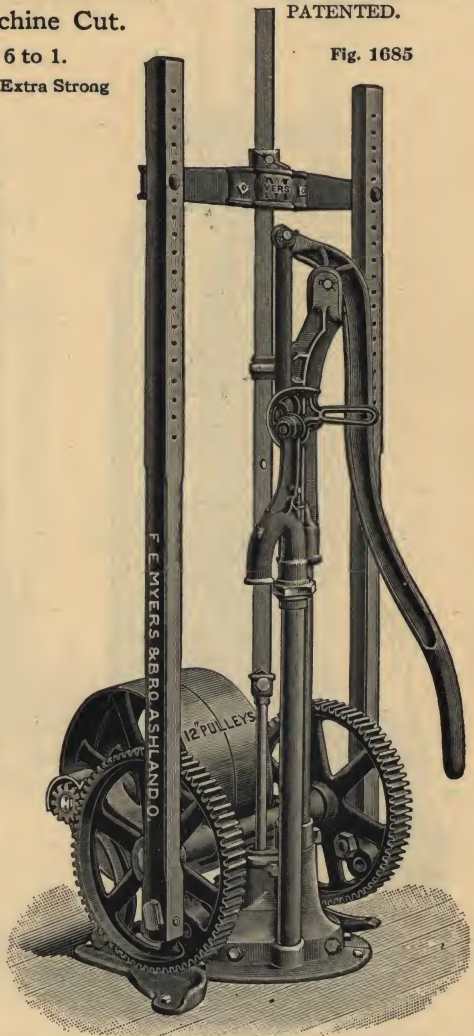


Fig. 1685



The Myers Master Double Gear Pump Jack, as represented by Figs. 1684 and 1685, is our latest production, especially designed for use with windmill pumps for deep well work. It is made extra wide, measuring 13 inches between the gear wheels, which especially adapts it for use with 3-way pumps. It is made with double gears and pinions.

THE GEARS AND PINIONS are 1⅝ inch face, machine cut.

THE WRIST PINS are 1 inch in diameter, hard steel, machine smoothed, screwed into the gear wheel, and are secured in addition by a lock nut.

THE SHAFTS are 1⅛ inch drawn steel securely keyed to the gears.

THE PULLEYS, 12 inches x 3 inches, are located in the center of the jack, providing for a center pull, thus doing away with all side strain as in other style jacks.

THE FRAME is made in two separate pieces, held together with ⅞ inch steel rods.

THE SIDE ARMS are wood, adjustable to any length stroke.

THE CROSSHEAD is extra strong, fitted with a ball and socket joint to attach to pump rod. This socket joint prevents binding and removes all unnecessary strain and friction on the piston rod. The socket joint also permits the piston rod to pass through at any angle.

The Myers Master Double Gear Pump Jack is designed with a view of meeting the demand for an extra strong jack where great strength and wearing qualities are desired.

PRICE LIST, Represented by Fig. 1684.

No. 426, Myers Master Double Gear Pump Jack complete, as shown in cut Fig. 1684.....*(Quip)*.. **$17.50**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Pump Jack for Motor Drive.

PATENTED.

Fig. 1741

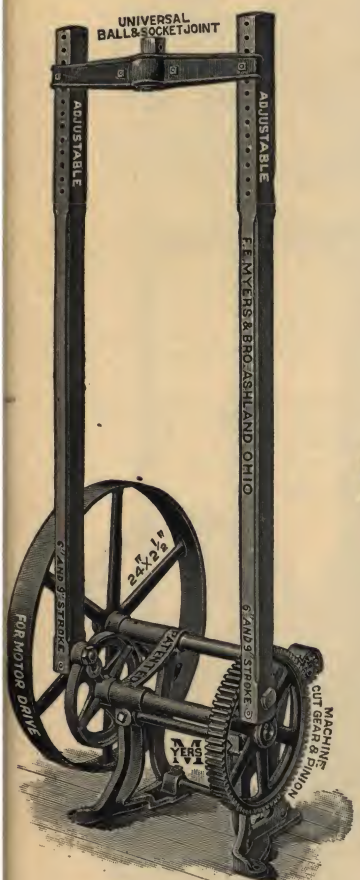


Fig. 1742

Machine Cut Gear and Pinion.

Back Geared 6 to 1.

Six and Nine Inch Stroke.

24 Inch Belt Pulley, Adapts It to Be Used with 1750 or 1800 R. P. M. Motor.

Can be Attached to Any Style Windmill Pump. Extra Strong for Heavy or Deep Well Work.

The Myers Pump Jack for motor drive, as represented by Figs. 1741 and 1742 is our latest production, especially designed for use with motor drive on windmill pumps for deep well work. It is made extra wide, measuring 13 inches between the gear wheels, which especially adapts it for use with 3-way pumps.

THE GEARS AND PINIONS are machine cut.

THE WRIST PINS are 1 inch in diameter, hard steel, machine smoothed, screwed into the gear wheel, and secured in addition by a lock nut.

THE SHAFTS are 1⅛ inch drawn steel securely keyed to the gears.

THE PULLEYS, 24 x 2½ inches with the back gearing, reduces the speed of 1750 R. P. M. motor to 35 strokes of pump.

THE FRAME is made in two separate parts, held together with steel rods.

THE SIDE ARMS are wood, adjustable to any length stroke or height of pump.

THE CROSSHEAD is extra strong, fitted with a ball and socket joint to attach to pump rod. This socket joint prevents binding and removes all unnecessary strain and friction on the piston rod. The socket joint also permits the piston rod to pass through at any angle.

It is designed with a view of meeting the demand for a motor driven jack where great strength and wearing qualities are desired.

Fig. 1742 illustrates the Jack as attached to Pump, with motor and all belted up. We do not furnish the motor.

PRICE LIST, Represented by Fig. 1741.

No. 428, Myers Pump Jack for motor drive, complete, as shown in cut Fig. 1741.....*(Teach)*. **$19.00**

The Myers Giant Pump Jack.

Double Gears Machine Cut. 10, 12 and 14 Inch Stroke.

Back Geared 7 to 1. For Extra Heavy Service.

Fig. 1930

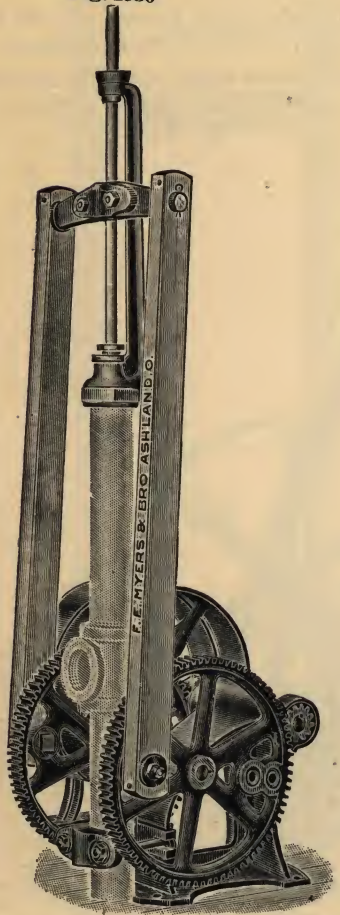
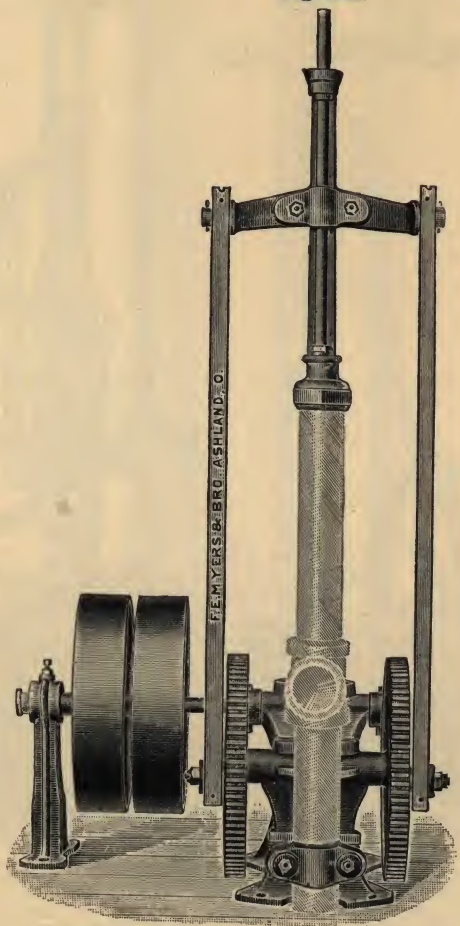


Fig. 1931



Figs. 1930 and 1931 illustrate the Myers Giant Pump Jack, an especially rugged jack made for use in deep wells. Can be used on extra heavy pump standards or attached direct to the well pipe or casing, as shown in the above cuts. The outlet in pipe can be located at any height above the base to suit the conditions under which it is to operate. The stuffing box head is fitted for either 3 or 4 in. pipe and can be used to force water to any reasonable elevation. The gears are machine cut; has tight and loose pulleys and will carry 24 in. pulley for motor work. The shafting is extra heavy with long boxes; the pulley shaft box babbitted; piston rod 1⅛ in. diameter, machined for crosshead clamp. The crosshead is made in two parts clamped to a recess cut in the piston rod.

PRICE LIST, Represented by Fig. 1930.

No. 431, Myers Back Geared Pump Jack, as shown in Fig. 1930, *without pipe or tee;* to be used on 3 or 4 in. pipe (state which is wanted); has 16″ x 4″ tight and loose pulleys. Price, each .....(*Tiger*)..**$38.00**

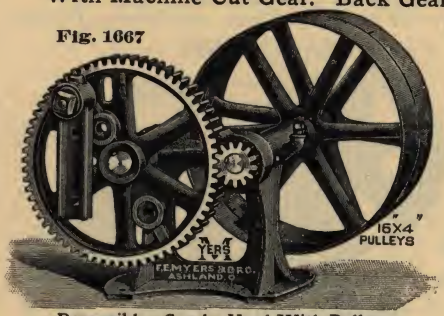
Can be furnished with 24 x 4 in. pulley for motor in place of regular tight and loose pulleys.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Triumph Senior Pump Jack or Countershaft.

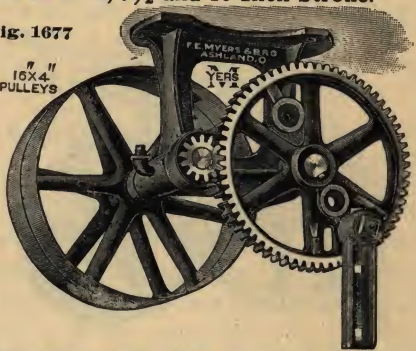
With Machine Cut Gear. Back Geared 5 to 1. 5, 7½ and 10 Inch Stroke.

Fig. 1667



Reversible—Can be Used With Pulleys on Right or Left Side.

Fig. 1677



Figs. 1667 and 1677 represent the Myers Triumph Senior Pump Jack. Is an especially rugged Jack, has machine cut gear and pinion; gear shaft 1½ inch, pulley shaft 1¼ inch; solid boxes thoroughly babbitted; wrist pins 1¼ inch, machined ferrule held in position by heavy machine bolt.

PRICE LIST, Represented by Figs. 1667 and 1677.

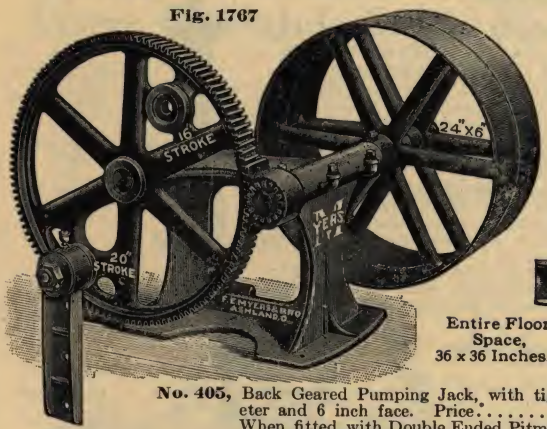
No. 403, Myers Triumph Senior Jack or Countershaft complete as shown above, 16 x 4 inch tight and loose pulleys. List.....(*Purvey*)..**$25.00**

The Myers Back Geared Pumping Jack and Countershaft.

With Sixteen and Twenty Inch Adjustable Stroke.

With Tight and Loose Pulleys, 24 Inch Diameter, 6 Inch Face. Back Geared 8 to 1.

Fig. 1767



Entire Floor Space, 36 x 36 Inches.

Fig. 1767 illustrates our Pumping Jack, which is built in a most substantial and compact form; has heavy, square base or stand; has 15 and 17 inch boxes.

The gear and pinion are Machine cut, 2⅜ inch face.

The wrist pin is 2½ x 2½ inch, recessed into the face plate at the hub and held secure by a heavy bolt and fitted for 2½ inch square wood piston rod.

Double End Pitman.

PRICE LIST, Represented by Fig. 1767.

No. 405, Back Geared Pumping Jack, with tight and loose pulleys, 24 inch diameter and 6 inch face. Price.....(*Teff*)..**$75.00**
When fitted with Double Ended Pitman for Pumping Two Wells, add to list **2.00**

ILLUSTRATING THE No. 405 PUMPING OIL.

Fig. 1949

This Power Jack will handle two wells 500 feet deep. Wells located any reasonable distance apart.

The Myers Back Geared Countershaft.

Adjustable Stroke from Four to Ten Inches.
Machine Cut Gear. Back Geared 6 to 1. 12 x 3 Inch Tight and Loose Pulleys.

Fig. 1729

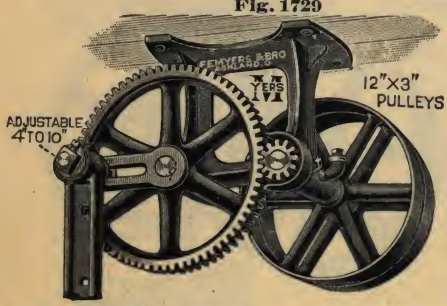
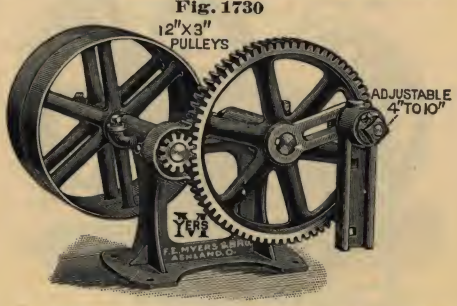


Fig. 1730



Figs. 1729 and 1730 illustrate the Myers Back Geared Countershaft with adjustable stroke, machine cut gear, babbitted bearings and tight and loose pulleys.

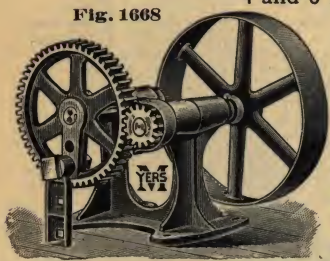
PRICE LIST, Represented by Figs. 1729 and 1730.

No. 407, Myers Back Geared Countershaft fitted with tight and loose pulleys, 12 inch diameter and 3 inch face. Price.....(*Taw*)..**$19.00**

The Myers Triumph Junior Jack or Countershaft.

Made with Machine Cut Gear. Back Geared 5 to 1.
4 and 6 Inch Stroke.

Fig. 1668



Especially Designed for Use in Connection with a Horizontal Hand Pump.

Fig. 1668 illustrates the Triumph Junior Pump Jack especially designed for use with horizontal pumps and as a countershaft, it being braced from all directions.

The one special feature of the Jack is that the gears, pinions and pulley can be interchanged so as to make it a universal proposition and adapting it to any and all conditions.

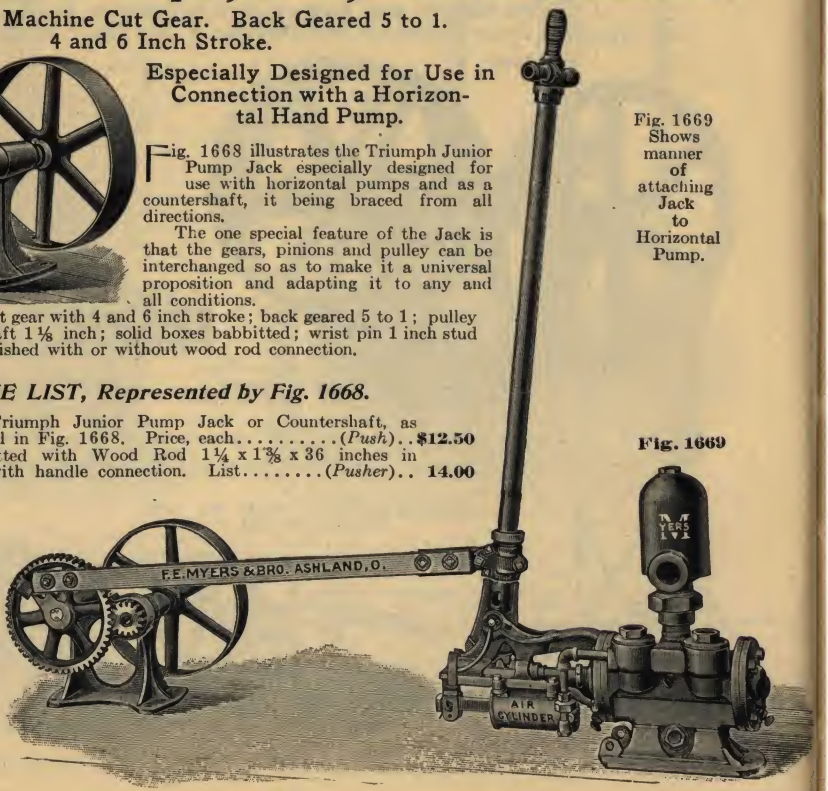
Has machine cut gear with 4 and 6 inch stroke; back geared 5 to 1; pulley 12 x 2½ inch; shaft 1⅛ inch; solid boxes babbitted; wrist pin 1 inch stud with locknuts, furnished with or without wood rod connection.

PRICE LIST, Represented by Fig. 1668.

No. 400, Myers Triumph Junior Pump Jack or Countershaft, as illustrated in Fig. 1668. Price, each.....(*Push*)..**$12.50**
When fitted with Wood Rod 1¼ x 1⅜ x 36 inches in length, with handle connection. List.....(*Pusher*).. **14.00**

Fig. 1669 Shows manner of attaching Jack to Horizontal Pump.

Fig. 1669



F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Triumph Junior Jack.

For Milking Machines with Long Slow Stroke.

Machine Cut Gears — Back Geared 5 to 1.

With 4, 6 and 15 Inch Stroke.

Fig. 1811

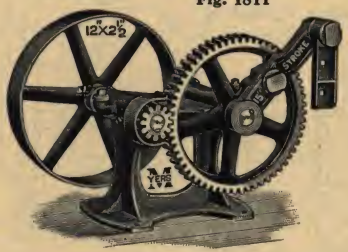


Fig. 1811 illustrates the Triumph Junior Jack designed for use with milking and other machines with long slow stroke. It has machine cut gear with 4, 6 and 15 inch stroke, and is back geared 5 to 1. Pulley is 12 x 2½ inches and shaft is 1⅛ inch. Boxes are solid and babbitted. Wrist pin is 1 inch stud with locknut.

PRICE LIST, Represented by Fig. 1811.

No. 401, Triumph Junior Pumping Jack, as illustrated in Fig. 1811 and as described above.
Price.....(*Terpin*)..**$14.00**

Myers Geared Jack for Reducing or Increasing Speed of Machinery.

For Milking, Washing and Other Machinery Where Slow Speed is Desired.

Machine Cut Gear. — Back Geared 8 to 1.

Fig. 1794

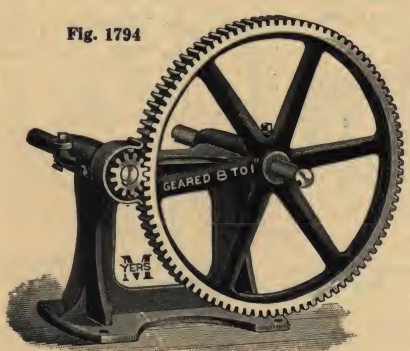
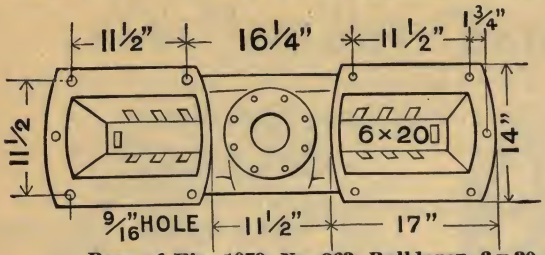


Fig. 1794 shows the Myers Jack designed for reducing or increasing the speed of light operating machinery such as milking and washing machines, churns, cream separators and the like. It is back geared 8 to 1, has 1 inch gear and pinion shafts, steel pinion and machine cut gears. Boxes are solid and babbitted. Shafts are extended 3½ inches to receive pulley or shaft couplings for extensions. This Jack is fitted with reversible oilers so that it can be placed in practically any position.

PRICE LIST, Represented by Fig. 1794.

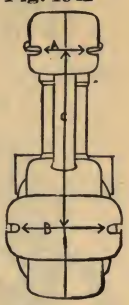
No. 408, Myers Jack for increasing or reducing speed, as illustrated under Fig. 1794 and as described above.
Price.....(*Terrace*)..**$14.00**

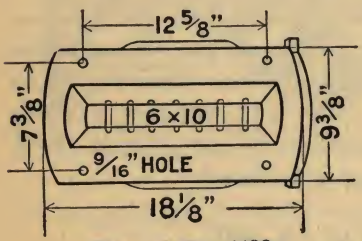
Diagrams of All Bulldozer Pumps and Working Heads.



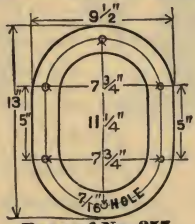
Base of Fig. 1079, No. 363, Bulldozer, 6 x 20 inch Cylinder.

Fig. 1942

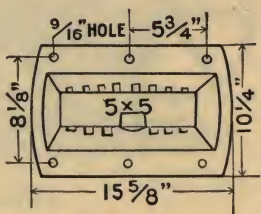




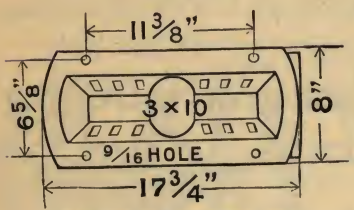
Base of Fig. 1196, Nos. 352-346.



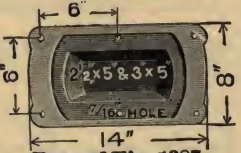
Base of No. 357, Fig. 1442.



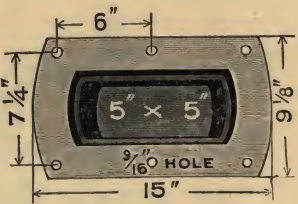
Base of Fig. 800, No. 353.



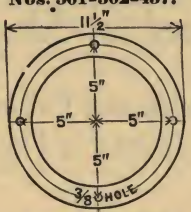
Base of Fig. 959, No. 362.



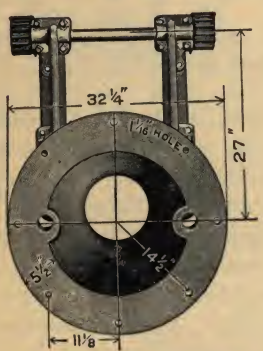
Base of Fig. 1387, Nos. 501-502-457.



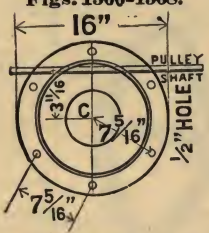
Base of Fig. 1389, No. 505.



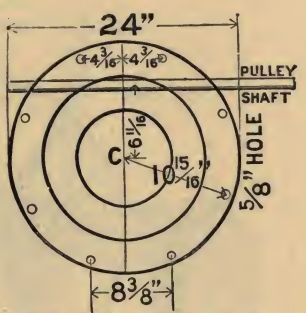
Base of No. 388, Figs. 1566-1568.



Base of Figs. 1360-1328, No. 382.



Base of Fig. 813, No. 359, Working Head.



Base of Fig. 1601, No. 364, Working Head.

Fig. 1942—Self-Oiling Bulldozer.

	No. 612	No. 613	No. 614	No. 615
B	2 inch	2⅝ inch	3 inch	4 inch
C	12 inch	15 inch	17½ inch	19 inch
D	4½ inch	6½ inch	7¾ inch	8¾ inch
E	9½ inch	12 inch	17 inch	17 inch
F	6¼ inch	8 inch	9 inch	9¾ inch
Center of suction to base line	8¾ inch	11½ inch	13¾ inch	14½ inch

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Diagrams of Bulldozer Pumps.

Fig. 1941

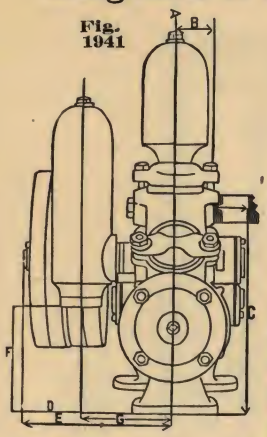


Fig. 1247

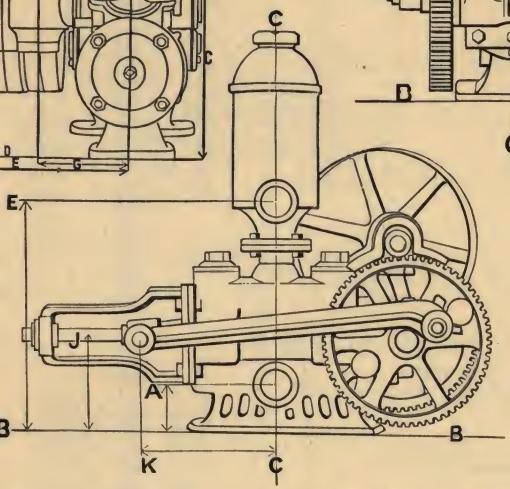


Fig. 1246

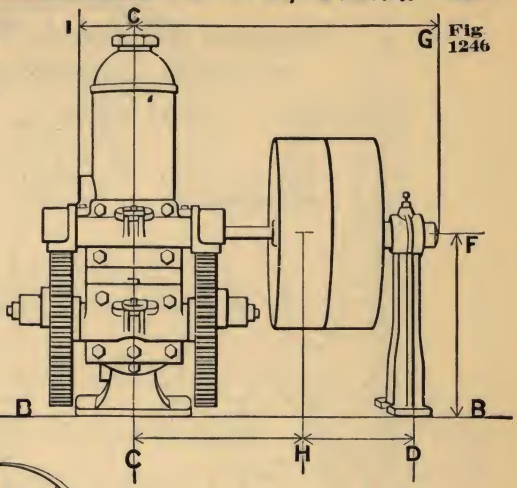
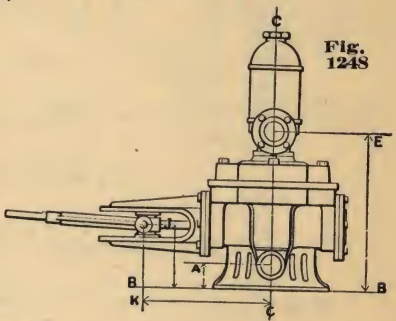


Fig. 1248



MEASUREMENTS.

Diagrams Figs. 1246, 1247 and 1248 represent All Sizes of Bulldozer Pumps. Measurements Given in Inches.

No.	Size	Fig.		A	D	E	F	G	H	I	J	K	W'th Over All	L'th Over All
												Ctr. of Stroke		
362	3x10	959	B (Base line) to	2¼	.....	19½	15⅝	.....	.....	.....	7⅝	.....	36	57
			C (Center line) to	.....	21½	.....	.....	24¾	12¾	5	.....	17½	.....	.....
353	5x 5	800	B (Base line) to	3¾	.....	18¾	15½	.....	.....	.....	7¾	.....	35	42
			C (Center line) to	.....	21½	.....	.....	24¾	12¾	5	.....	12¾	.....	.....
352	6x10	1196	B (Base line) to	3¾	.....	23½	19¾	.....	.....	.....	10	.....	42	52
			C (Center line) to	.....	24½	.....	.....	29	15½	6½	.....	17½	.....	.....
363	6x20	1079	B (Base line) to	6¾	.....	32½	28¾	.....	.....	.....	15¾	.....	47	108
			C (Center line) to	.....	29¾	.....	.....	32½	18	8½	.....	36	.....	.....
454	5x 5	1272	B (Base line) to	2¾	.....	14⅛	.....	.....	.....	.....	7¼	.....	12	31½
			C (Center line) to	.....	.....	.....	.....	.....	.....	3½	.....	11½	.....	.....
346	6x10	1195	B (Base line) to	3¾	.....	23½	.....	.....	.....	.....	10	.....	13½	55½
			C (Center line) to	.....	.....	.....	.....	.....	.....	6½	.....	17½	.....	.....
456	3x 5	1272	B (Base line) to	2	.....	12⅝	.....	.....	.....	.....	5½	9⅝	8½	28
			C (Center line) to	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....
500	2x 5	1459	B (Base line) to	2	.....	12¾	10⅛	.....	.....	.....	5⅛	.....	17	24¾
			C (Center line) to	.....	.....	.....	.....	11	7¼	2¼	.....	10¼	.....	.....
501	2½x5	1387	B (Base line) to	2¾	.....	13½	12⅝	23⅜	.....	.....	6¾	.....	24½	31
			C (Center line) to	.....	.....	17	.....	16	10¼	.....	.....	11¾	.....	.....
502	3x 5	1387	B (Base line) to	2¾	.....	13½	12⅝	23⅜	.....	.....	6¾	.....	24½	31
			C (Center line) to	.....	.....	17	.....	16	10¼	.....	.....	11¾	.....	.....
505	5x 5	1389	B (Base line) to	2½	.....	18⅛	16⅛	.....	.....	.....	8	.....	37	36
			C (Center line) to	.....	23	18	.....	26¼	13⅜	5	.....	14½	.....	.....
377	3x 5	1593	B (Base line) to	2	.....	12¾	11	.....	.....	.....	5⅜	.....	19¼	31½
			C (Center line) to	.....	.....	.....	.....	11½	9¾	3	.....	12	.....	.....

Fig. 1941

	No. 612	No. 613	No. 614	No. 615	No. 616
A	2⅜ inch	3¾ inch	4¾ inch	4¾ inch	6¼ inch
B	7 inch	7¾ inch	9 inch	9 inch	11½ inch
C	13 inch	15¾ inch	20½ inch	20½ inch	24 inch

Diagrams of Bulldozer Working Heads, Countershafts and Jacks.

Fig. 1250

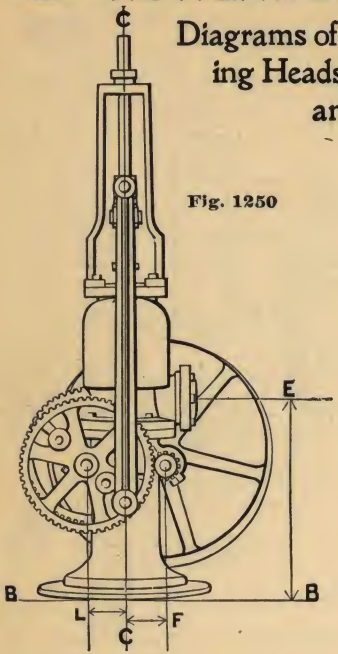


Fig. 1251

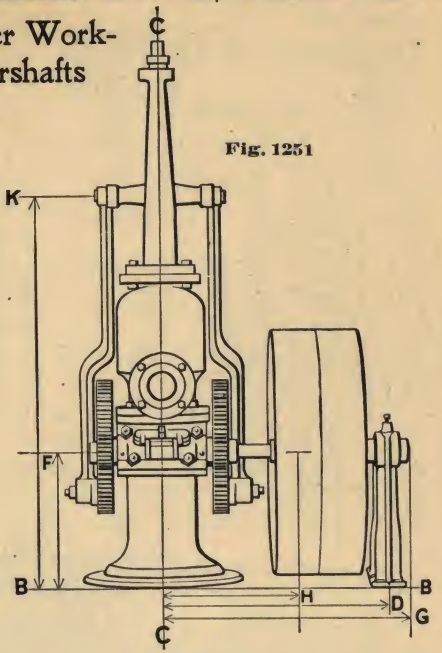
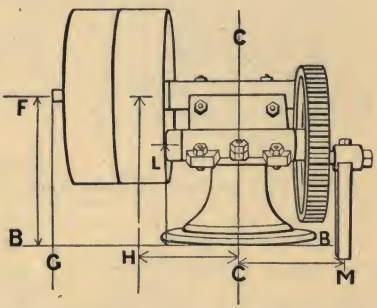


Fig. 1249



Measurements.

Diagrams Figs. 1250 and 1251 represent all Bulldozer Working Heads.

Diagram Fig. 1249 represents all Countershafts or Jacks.

Measurements given in inches.

No.	Fig.		D	E	F	G	H	K	L	M	W'th over all	H'gt over all
								Ctr of Str'ke				
359	813	B (Base line) to C (Center line) to	22	19 3/8	12 1/2 3 7/8	24 1/2	13	43	4		34 1/2	63
364	1601	B (Base line) to C (Center line) to	28 1/2	22	14 1/4 6 3/4	31 1/2	17	60	6 7/8		47	81
357	1442	B (Base line) to C (Center line) to		26 1/4	11 1/2 3	18	10 1/2	47	3		26	87 1/2
350	514	B (Base line) to C (Center line) to	14		11 3/4		7		7 1/2	9	25	12
347	1068	B (Base line) to C (Center line) to	16 1/2		11 3/4		8		7 3/4	7 1/2	28 1/2	22
348	943	B (Base line) to C (Center line) to			16 5/8		13 1/2		17	12 1/2	41	36
382	1360	B (Base line) to C (Center line) to		8 1/4	17 1/2				17 1/2		41 68 1/2	67 1/2
383	1472	B (Base line) to C (Center line) to		8 1/4	14 1/4				14 3/4		29 1/2	58
384	1472	B (Base line) to C (Center line) to										
388	1566	B (Base line) to C (Center line) to		20 1/4	8 1/4	13	8		13		19 1/2	74 3/4

ACCESSORIES:

ROD COUPLINGS,
VALVES, STRAINERS,
AIR CHAMBERS,
HOSE, TOOLS,
VISES, FITTINGS,
DRIVE WELL POINTS,
BRASS GOODS,
NOZZLES,
HYDRANTS,
SINKS, ETC.

TOOLS, WOOD ROD, FITTINGS, BRASS GOODS, DIVE WELL POINTS, HYDRANTS, SINKS AND 2 INCH HOSE AT MARKET PRICE.

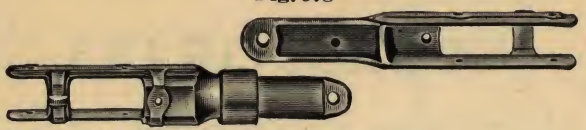
Malleable Rod Couplings for Wood Rod.

Fig. 360

	Plain.	Galv.
Fig. 360, For 1 inch and 1⅛ inch wood rod, pin threaded for ⅜ inch pipe, per set...	**$0.30**	**.40**
Fig. 360, For 1 inch and 1⅛ inch wood rod, pin threaded for ⅝ inch rod, per set....	**.30**	**.40**

State which is wanted.

Fig. 978



	Galv.
Fig. 978, No. 1, for 1 inch rod, per set, galvanized only	**$0.55**
Fig. 978, No. 2, for 1⅜ inch rod, per set	**.80**
Fig. 978, No. 3, for 1⅝ inch rod, per set	**1.25**
Fig. 978, No. 4, for 2¼ inch rod, per set	**2.00**

Wrought Forged Sucker Rod Couplings.

Fig. 1208

For 1⅛ inch Wood Rods,	⅝ inch box and pin.	Price	**$1.35**
For 1⅝ inch Wood Rods,	⅞ inch box and pin.	Price	**2.25**
For 1⅞ inch Wood Rods, 1	inch box and pin.	Price	**3.00**
For 2¼ inch Wood Rods, 1⅛	inch box and pin.	Price	**5.40**

Wood Rod.

Size Rod in Inches.	1 in.	1⅛ in.	1⅜ in.	1⅝ in.	1⅞ in.	2¼ in.
Hardwood Rod without Couplings. Price per foot..	$0.08	$0.09	$0.12	$0.13	$0.19	$0.33

Rod Couplings (Malleable and Brass).

	Malleable	Galvanized	Brass
Rod Couplings, ⅜, 7/16 and ½ inch. Price per pound	**$0.30**	**.40**	**1.05**
Rod Couplings ⅝ inch rod x 7/16 inch rod. State which is wanted. Price per lb.	**.30**	**.40**	

Fig. 884, Reducer Couplings made in the following sizes: Rod, ⅜ x ½, ⅜ x ⅝, ⅜ x 7/16, ½ x 7/16, ⅜ rod x ⅜ inch pipe, ⅜ rod x ¼ inch pipe, ⅜ rod x ⅝ inch pin. List same as regular couplings. Price per pound..... Mall. **.30** Galv. **.40**

Fig. 1439, Reducer Couplings tapped, ⅝ inch rod x ⅜ inch rod, threaded outside ⅜ inch pipe or ⅝ inch pin for wrought coupling. Price per pound. **.35** **.45**

Fig. 1439

Fig. 226. Regular Coupling.

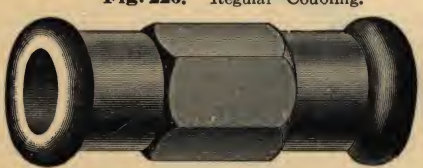


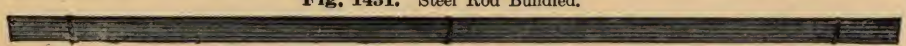
Fig. 884. Reducer Coupling.

Steel Connecting Rod, Galvanized and Polished.

Made of Stiff Steel and drawn to 1/1000 part of an inch, in 20 foot lengths.

⅜ inch Galvanized Rod, random lengths.	Price, per foot	(*Fad*)..	**$0.05**
7/16 inch Galvanized Rod, random lengths.	Price, per foot	(*Fade*)..	**.05½**
⅜ inch Galvanized Rod, fitted.	Price, per foot	(*Faded*)..	**.06**
7/16 inch Galvanized Rod, fitted.	Price, per foot	(*Fading*)..	**.08**

Fig. 1451. Steel Rod Bundled.



Tools, Wood Rod, Fittings, Brass Goods, Drive Well Points, Hydrants, Sinks, and 2 Inch Hose at Market Price.

Check and Foot Valves.

Fig. 1644

Fig. 422

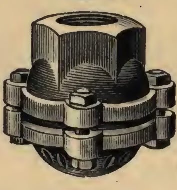


Fig. 418

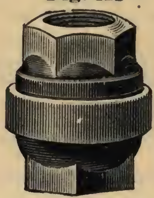
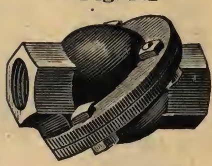


Fig. 421



PRICE LIST, CHECK AND FOOT VALVES.

Size, Inches	1	1¼	1½	2	2½	3	3½	4
Fig. 418, plain, Vertical	$0.70	$0.80	$1.20	$1.90	$2.85	$3.75		
Fig. 418, galv., Vertical	1.00	1.15	1.70	2.75	4.75	5.00		
Fig. 421, plain, Horizontal	1.25	1.40	2.10	3.00	5.00	6.00		
Fig. 421, galv., Horizontal	1.75	2.25	3.00	4.00	6.50	8.00		
Fig. 422, plain, Vertical	.70	.70	.90	1.25	2.10	2.80	$4.10	$4.50
Fig. 422, galv., Vertical	.90	.90	1.40	1.80	3.00	4.25	6.00	7.50

Handle Weight, 7 lb. weight. Price............................**$1.00**

FIG. 1644 GLASS SEAT VERTICAL CHECK VALVES.

Size, Inches	1¼ in.	1½ in.	2 in.		
Plain, Price	2.50	$3.75	$5.00		

Fig. 1649

FIG. 1649 FOOT VALVE AND STRAINER.

Outside Diameter Size Pipe	2⅜ in. 1¼ in.	2¾ in. 1½ in.	3 in. 2 in.	3¾ in. 2½ in.	4⅜ in. 3 in.
Plain, Price	$2.25	$2.50	$3.00	$3.50	$4.50
Galvanized, Price	2.75	3.50	4.00	4.50	5.25

Fig. 751

Fig. 752

Drive Caps and Heads.

Size, Inches	1¼	1½	2
Fig. 751, Price, malleable, each	$0.45	$0.55	$0.80
Fig. 752, Price, steel, each	2.75	3.75	

Tank and Float Valves.

Fig. 1330

☞ Lever set to close with Float. For automatically controlling the flow of water in reservoirs, tanks, cisterns, stock watering tanks, etc. Is positive in opening and closing under high or low pressure.

PRICE LIST, Fig. 1330.

Fig. 1330, Float Valve, ¾ in. Price (*Pance*)..**$1.65**
Fig. 1330, Float Valve, 1 in. Price (*Panch*).. **1.85**
Fig. 1330, Float Valve, 1¼ in. Price (*Pancy*).. **2.00**

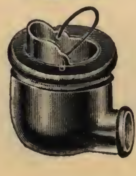
Floats.

Fig. 750

PRICE LIST, Fig. 750.

Fig. 750, Float, galvanized, 12 inches diameter. Price...........(*Jock*)..**$2.00**
Fig. 750, Float, copper, 12 inches diameter, Price ....(*Jocose*).. **3.25**

Fig. 882



The Myers Water Conductor.

Fig. 882 illustrates the Myers Water Conductor to be attached to any pump and connected by pipe to convey water to troughs, tanks and other desired points. Is made with swivel so that water can be carried in any direction without disconnecting from spout. Tapped for 1¼ inch pipe.

PRICE LIST, Represented by Fig. 882.

Fig. 882, The Myers Water Conductor.........................(*Jocko*)..**$0.65**

Strainers.

Fig. 759

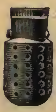


Fig. 220

Fig. 1648

Our strainers are all made large enough to slip over the pipe, and are held in place by a set screw or bolt.

Size, Inches	1	1¼	1½	2	2½	3
Fig. 759, plain. Price, each.		$0.40	$0.40	$0.65	$0.95	$1.25
Fig. 220, galvanized, gauze covered. Price, each	$0.50	.55	.65	.95		

Fig. 1734, Mud Strainer for Tank Pump, 2″ Hose (Enlarged End) **$0.65**

Fig. 1347

Suction Strainers, Fig. 1648.

Size, Inches	1¼	1½	2	2½	3
Plain. Price, each	$0.30	$0.40	$0.55	$0.90	$1.25
Galvanized. Price, each	.45	.50	.70	1.05	1.55
Galvanized, gauze covered. Price each	.65	.75	1.00		

Fig. 1734

Fig. 749

Fig. 1347, Strainer, tapped 1″ pipe for power spray pumps, Each **$1.55**

Air Chamber for Suction or Discharge Pipe.

Fig. 749 represents the Myers Air Chamber, for use in suction or discharge pipe, when drawing water from a distance horizontally, or when forcing water from a pump to an elevation. When used on suction pipe, it should be placed near the cylinder, in which case it acts as a vacuum chamber and assists in starting the water. When used in a discharge pipe it acts as an air chamber, giving a steady flow of water. In either case it relieves the pump of a great amount of strain.

Fig. 1329 represents an especially large air chamber, fitted with flanged tee, made regularly for 6 inch line or discharge pipe.

Fig. 1329

Fig. 1446

PRICE LIST, Represented by Fig. 749.

Air Chamber for 1 inch pipe. Price **$2.50**
Air Chamber for 1¼ inch pipe. Price **3.75**
Air Chamber for 1½ inch pipe. Price **5.00**
Air Chamber for 2 inch pipe. Price **6.25**
Air Chamber for 2½ inch pipe. Price **7.50**

PRICE LIST, Represented by Fig. 1329.

Air Chamber only. Price, each .... (*Palfrey*) .. **$25.00**
Tee only, 6 in., to which air chamber is attached. Price, each .... (*Pandit*) .. **12.50**

PRICE LIST, Represented by Fig. 1446.

Air Chamber, flanged for 3 inch pipe. Price, each .... (*Polt*) .. **$12.50**
Air Chamber, flanged for 4 inch pipe. Price, each .... (*Pomer*) .. **18.75**

Rubber Hose.

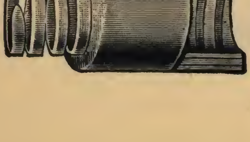
Internal Diameter.	List Price Per Foot. 3 Ply	5 Ply	7 Ply	8 Ply
⅜ inch	$0.20		$0.30	
½ inch		$0.25	.30	
¾ inch		.35		
1 inch	.30			
⅜ inch Spray Electric High Pressure			.45	
½ inch Spray Electric High Pressure				$0.50

Cotton Hydrant Hose.

Rubber Lined. Cotton Rubber Lined Hose, with Couplings Attached.

¾ inch. Price, per foot **$0.25**
1 inch. Price, per foot .... **.50**
1¼ inch. Price, per foot .... **.65**
1½ inch. Price, per foot .... **.75**

Fig. 1452



Suction Hose.

We have had made to our special order, Spiral Wire Suction Hose, the proper size for tank pumps, which we can furnish in lengths of 15, 20 and 25 feet, inside diameter 2 inches, with enlarged ends to attach to nipple.

Fig. 1452. List price, per foot .... (*Breech*) .. **$0.65**
Seamless Woven Cotton Jacket Suction Hose, 2 inch (in 20 foot lengths only). List, per foot .... (*Pacos*) .. **1.00**

Tools, Wood Rod, Fittings, Brass Goods, Drive Well Points, Hydrants, Sinks, and 2 Inch Hose at Market Price.

Ratchet Screw Stock and Plates.

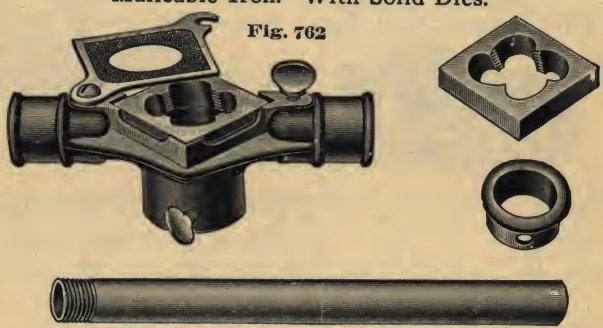
Fig. 248

Complete with dies and bushes that will thread pipe ¼ to 1½ inch. Price	$13.25
Ratchet stock complete without dies. Price	7.00
All sizes of dies for ratchet screw plates, ½ inch and larger. Price	1.30
Smaller dies, ¼ and ⅜, are 2 x 2. Price	1.30
Extra bushings, all sizes. Price	.60
Lead screws for ratchet stock. Price	3.00
Set screws for ratchet stock. Price	.10

Gas and Steamfitters' Screw Plate.

Malleable Iron. With Solid Dies.

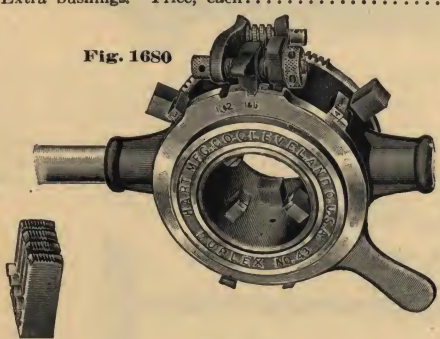
Fig. 762



PRICE LIST AND DIMENSIONS.

Dies furnished with each plate	½ to 1½
Dimensions of dies	3 x ⅞
Screw plate with dies complete. Price, each	$11.50
Screw plate, without dies. Price, each	3.75
Extra dies, right or left hand. Price, each	1.80
Extra bushings. Price, each	.30

Fig. 1680



Duplex Die Stocks With Cut-Off for Threading Pipe.

No.	Threading						Price
41½		⅛	¼	⅜	½	¾	$15.00
42½	¼	⅜	½	¾	1	1¼	18.00
43			1	1¼	1½	2	23.00
43½	½	¾	1	1¼	1½	2	25.00

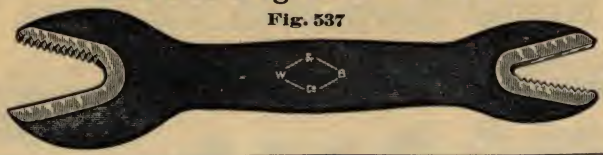
Fig. 347

Little Giant Tap and Die.

	⅜x14	7/16x14
Fig. 347, die and holder. Price	$3.50	$4.50
Fig. 347, die only. Price	2.25	2.75
Fig. 347, tap only. Price	.95	1.40

The Bull Dog Twin Wrench.

Fig. 537



Numbers	Twin	1 Single	2 Single	3 Single	4 Single
Holds pipe or nuts from	⅛ to ¾	⅛ to ⅜	⅜ to ¾	½ to 1¼	1¼ to 2
Holds round iron or nuts from	¼ to 1	¼ to ¾	½ to 1	¾ to 1⅜	1½ to 2½
Length, inches	10	5¾	10	16	22
Price, each	$1.00	$0.25	$0.60	$1.25	$1.90

These wrenches are forged solid in one piece from special steel, with tempered jaws. They have ratchet teeth cut diagonal across one jaw, thus enabling them to bite with three teeth at once. A single wrench will hold many sizes of nuts and bolts.

Trimo or Stillson's Patent Wrenches.

Made of Black Diamond Cast Steel. Pipe is Not Crushed by Their Use.

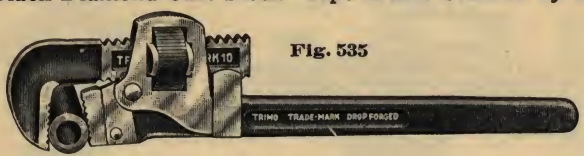


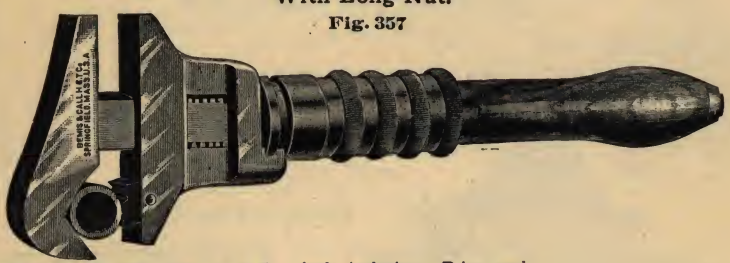
Fig. 535

Takes from	⅛ to ½	⅛ to ¾	⅛ to 1	¼ to 1½	¼ to 2	¼ to 2½
Length, open, inches	6	8	10	14	18	24
Price, each	$1.25	$1.35	$1.50	$2.00	$2.90	$4.25
Movable jaws, each	.50	.50	.60	.80	1.00	1.50

Bemis & Call's Gas Pipe Wrenches.

With Long Nut.

Fig. 357



10 inch, adjustable to pipe from ¼ to 1 inch, inclusive. Price, each..... **$2.60**
12 inch, adjustable to pipe from ½ to 1½ inch, inclusive. Price, each..... **2.85**
15 inch, adjustable to pipe from ½ to 2 inch, inclusive. Price, each..... **4.00**

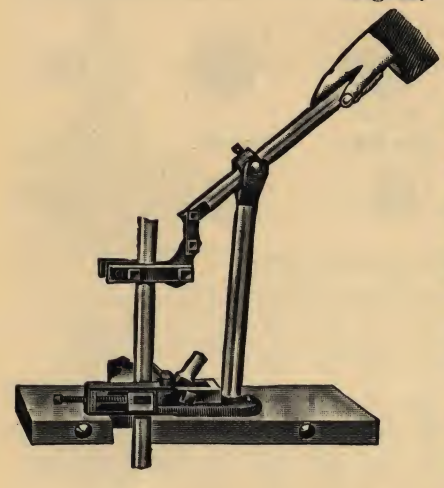
Saunders Roller Pipe Cutter.

Fig. 296

Numbers	1	2	3
Cuts pipe from	⅛ in. to 1 in.	1 in. to 2 in.	2 in. to 3 in.
Price, complete, each	$2.40	$3.60	$8.75
Price, extra wheels, each	.27	.36	.60
Price, extra rollers, each	.27	.36	.50

Babcock's Patent Automatic Pipe Lifter and Holder.

Fig. 427



This implement is one of the most perfect machines yet invented for *raising and holding pipe*, and *lowering the same down into a well.*

We have perfected a new grip for lifting pipe. It is so made as to secure a perfect grasp of the pipe, and still the use of a knife is obviated, thus preventing all possibility of tearing and damaging the pipe. The standard is a piece of 1 inch pipe, and the length of the lift can be varied at will. The grip releases itself the moment the pressure is removed, and is adjustable for all sizes of pipe. We are confident that the Babcock Lifter and Holder is without an equal in the market.

The device for lowering pipe is entirely novel, and consists of the pressure of a grooved eccentric against the pipe by means of a lever, said eccentric acting as a brake to prevent the too rapid descent of pipe.

The accompanying cut shows the combined machine as used in raising or lowering pipe, and as a pipe holder.

Price, complete **$14.50**

The Myers Pipe Vise.

Represented by Fig. 246.

The Myers Pipe Vise is adapted for all sizes from ⅜ rod to 2 inch pipe.
Price **$3.25**

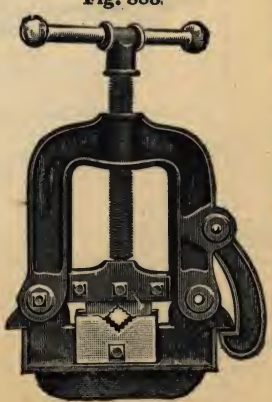
Fig. 246

Handy Pipe Holder.

Fig. 587

A simple, handy tool for use in raising and lowering pipe in a well has long been demanded by practical pump men. Our *Handy Pipe Holder* will meet with your approval. Made in one size only. Adjustable for 1¼ and 1½ inch pipe.
Price **$2.75**

Fig. 888.



Malleable Hinged Pipe Vise.

GUARANTEED.

The jaws are made from a high grade of tool steel. They are made up in the most careful manner possible, and every one tested. The minimum capacity of all sizes is ⅛ inch pipe.

The weight of each size is guarantee to be ample to give it strength enough for any work within its capacity.

The screw is given a fine thread so that it is impossible for the jaws to loosen up on the work.

No.	Capacity Pipe Inches	List Vise Each	List Jaws Set (3)
11	⅛ to 2½	$4.50	$2.00
12	⅛ to 3½	6.50	2.50

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Malleable Pipe Fittings.

Fig. 227

Fig. 228

Fig. 229

Fig. 230

Fig. 231

Fig. 232

Fig. 233

Fig. 234

Fig. 235

Fig. 236

Fig. 237

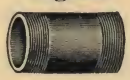
Fig. 238

Inside Diameter of Tube, Inches	¼	⅜	½	¾	1	1¼	1½	2	2½	3	3½
Fig. 227, Common Elbow	$0.05	$0.06	$0.08	$0.10	$0.13	$0.20	$0.31	$0.50	$0.95	$1.50	....
Fig. 228, Street Elbow	.05	.06	.09	.15	.19	.25	.31	.63	.95	1.55	....
Fig. 229, 45-Degree Elbow	.05	.06	.09	.13	.19	.31	.44	.63	.80	1.25	....
Fig. 230, Tee	.08	.09	.11	.13	.19	.28	.38	.63	.85	1.55	....
Fig. 231, Cross	.08	.11	.19	.25	.38	.44	.50	.75	1.45	2.05	....
Fig. 232, Bushing	.05	.05	.05	.06	.08	.09	.11	.18	.25	.36	$0.50
Fig. 233, Lock Nuts	.03	.04	.05	.06	.08	.09	.13	.19	....	....	....
Fig. 234, Caps	.03	.04	.05	.06	.11	.13	.18	.28	.45	....	....
Fig. 235, Plug	.03	.03	.03	.04	.05	.06	.09	.13	.20	.30	.45
Fig. 236, Reducer	.06	.06	.09	.15	.25	.31	.38	.44	.95	1.40	....
Fig. 237, Malleable Union	.15	.18	.20	.23	.25	.38	.50	.63	1.25	1.70	...
Fig. 238, Couplings	.05	.06	.08	.10	.13	.19	.23	.28	.40	.55	....

Add 50 per cent to the above prices for Galvanized Fittings.

Nipples.

Fig. 241

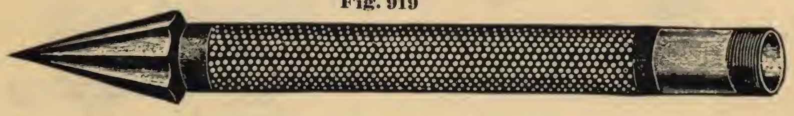


Size inches	⅛	¼	⅜	½	¾	1	1¼	1½	2	2½	3
Close or Short. Price, each	.05	.05	.06	.07	.09	.10	.14	.17	.25	.56	.75
Long, 2½ to 4 in. Price, each	.07	.07	.09	.10	.11	.15	.20	.25	.35	.75	.95

Add 50 per cent. to the above prices for Galvanized Nipples.

Drive Well Points.

Fig. 919



PRICE LIST, Represented by Fig. 919.

1 Inch Points—Galvanized.

Trade No.	Length, Feet	Jacket, Inches	Holes	No. 60 Gauze,
74	2	18	70	$1.80
76	2½	24	100	2.25
78	3	30	120	2.75

1¼ Inch Points—Galvanized.

Trade No.	Length, Feet	Jacket, Inches	Holes	No. 60 Gauze
86	1⅔	14	80	$1.60
90	2	18	100	1.95
94	2½	24	125	2.40
98	3	30	150	3.00

1½ Inch Points—Galvanized.

Trade No.	Length, Feet	Jacket, Inches	No. 60 Gauze
136	2	18	$2.60
140	2½	24	3.25
144	3	30	3.90

2 Inch Points—Galvanized.

Trade No.	Length, Feet	Jacket, Inches	No. 60 Gauze
160	2	18	$4.00
164	2½	24	4.85
168	3	30	5.65

Fig. 596

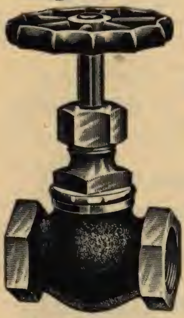


Fig. 346

Brass Globe and Angle Valves.

SIZES AND PRICES, Figs. 596 and 346.

Size, inches ..	¼	⅜	½	¾	1	1¼	1½	2
Price, each ..	$0.85	$0.90	$1.20	$1.50	$2.15	$3.00	$4.20	$6.40

Brass Steam Cock.

SIZES AND PRICES, Fig. 753.

Size, inches ..	¼	⅜	½	¾	1	1¼	1½	2
Price, each ..	$0.80	$0.95	$1.20	$1.60	$2.20	$3.60	$4.50	$6.80

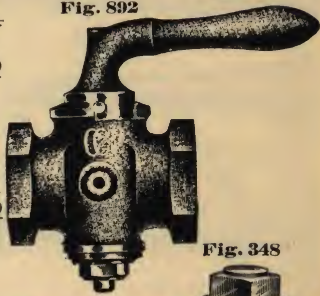
Fig. 753

Brass Stop and Waste.

SIZES AND PRICES, Fig. 892.

Size, inches..	½	¾	1	1¼	1½	2
Price, each..	$1.20	$2.00	$3.00	$5 00	$8.25	$15.00

Fig. 892



Brass Three-Way Cock.

SIZES AND PRICES, Fig. 225.

Size, inches..	½	¾	1	1¼	1½	2
Price, each..	$2.75	$3 30	$4.10	$6 25	$7.75	$12.00

Fig. 225

Brass Horizontal Check Valve.

SIZES AND PRICES, Fig. 348.

Size, inches	½	¾	1	1¼	1½	2
Price, each	$1.25	$1.50	$2.25	$3.00	$4.25	$6.00

Fig. 348

Brass Vertical Check Valve.

SIZES AND PRICES, Fig. 349.

Size, inches	½	¾	1	1¼	1½	2
Price, each	$1.50	$1.75	$2.75	$3.75	$5.50	$8.25

Fig. 756

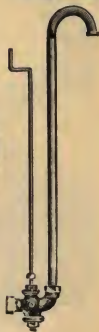


Fig. 349

Hydrant Cocks.

SIZES AND PRICES, Figs. 755 and 756.

Size, pipe inches....	½	¾	1	1¼
Fig. 755, for iron pipe. Price, each	$1.50	$2.60	$3.75	$5.90
Complete, as shown by Fig. 756	.....	5.10	6.35	8.55

Fig. 756 is complete with 5½ feet of pipe, goose-neck and wrench.

Fig. 755
T Handle.

Fig. 1505

Lever Shut-Off Cock.

Fig. 1505, Lever Shut-off Cock, threaded both ends, ⅜ inch pipe. Price, each, $1.00.

Fig. 783

Compression Bibb Cocks—Plain.

SIZES AND PRICES, Fig. 783.

Size, inches	½	¾	1
Finished bibbs. Price, each	$1.15	$1.85	$3.25

Tools, Wood Rod, Fittings, Brass Goods, Drive Well Points, Hydrants, Sinks, and 2 Inch Hose at Market Price.

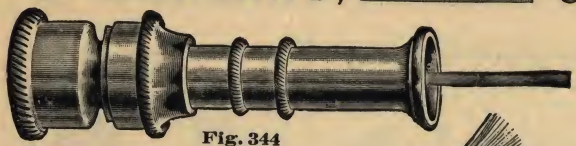


Fig. 344

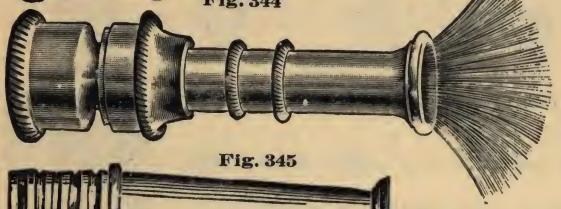


Fig. 345

Fig. 223

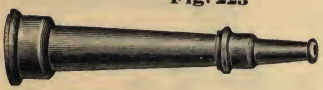


Fig. 571

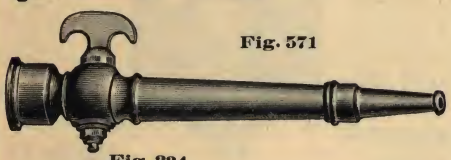


Fig. 224

Fig. 885

Fig. 540

Fig. 541

Gem Nozzle, Fig. 344.

Can be graduated to throw either solid stream or spray or shut off entirely.

PRICE LIST

For ¾ inch hose.
Price, each $0.85

For 1 inch hose.
Price, each $1.30

Japanned Hose Nozzles to Tie on, Fig. 345.

Size, inches		1x7	1¼x7¼
Price, each		$0.35	$0.50

Brass Hose Pipes, Screw Tip, Figs. 223 and 571.

Size, inches ..	¾x7½	1x8½	1x12½	1¼x12	1½x13
Fig. 223, price, each	$1.15	$1.40	$1.90	$2.85	$3.50
With stop cock	¾x6¾	1x8			
Fig. 571, price, each	$2.00	$2.50			

Brass Hose Couplings, Fig. 224.

Size, inches	½	¾	1	1¼	1½	2
Complete, price, each...	$0.35	$0.40	$0.70	$1.50	$2.25	$3.75
Half coupling, female, price, each	$0.20	$0.25	$0.40	$1.00	$1.25	$2.25

Galvanized Steel Hose Clamps, Fig. 885.

Size, inches	½	¾	1	1¼	1½	2
Price, each	$0.06	$0.06	$0.06	$0.08	$0.10	$0.12

Brass Hose Nipples, Fig. 540.

Size, inches	¾	1	1¼	1½	2
Price, each	$0.40	$0.50	$0.80	$1.00	$1.25
Extra length tapped for agitator, price, each	$0.50	$0.65			

Y or Two Stream Hose Connection, Fig. 541.

Fig. 541 with ¾ male ends and lateral discharges, either ¾ or ½ inch according to the pump on which it is to be used.

Price, each $1.00

Relief Valves.

For Power Spray and Other Power Pumps.

Fig. 1346

PRICE LIST, Fig. 1346.

FINISHED BRASS.

Sizes, Inches	Price, Each
½	$4.50
¾	4.50
1	7.00
1¼	11.50

Total Eclipse Hydrant.

PATENTED.

Compression, Anti-Freezing.

Cast iron stock, painted. Valve and all working parts made of brass. Positive waste. No water in top working parts. Can be repaired without digging up.

Fig. 569, SIZES AND LIST PRICES.

Fig. 569

To set in Ground	Opening ¾ Inch	Opening 1 Inch	Opening 1¼ Inch
1½ feet	$6.25	$8.50	$13.25
2 feet	6.50	9.00	13.75
3 feet	6.75	9.50	14.50
4 feet	7.00	10.00	15.25
5 feet	7.25	10.50	16.00

Fig. 757

Cast Iron Sinks.

Size, Inches	Depth, Inches	White Enamel	Painted
12 x 18	6	$4.75	$1.90
14 x 20	6	5.75	2.25
16 x 24	6	6.25	2.85
18 x 24	6	6.75	3.15
18 x 30	6	6.50	3.75
18 x 36	6	9.50	4.85
20 x 30	6	7.25	4.50
20 x 36	6	10.25	5.50

The above prices are for sinks fitted for lead pipe. If fitted for *iron* pipe, add 15 cents net each.

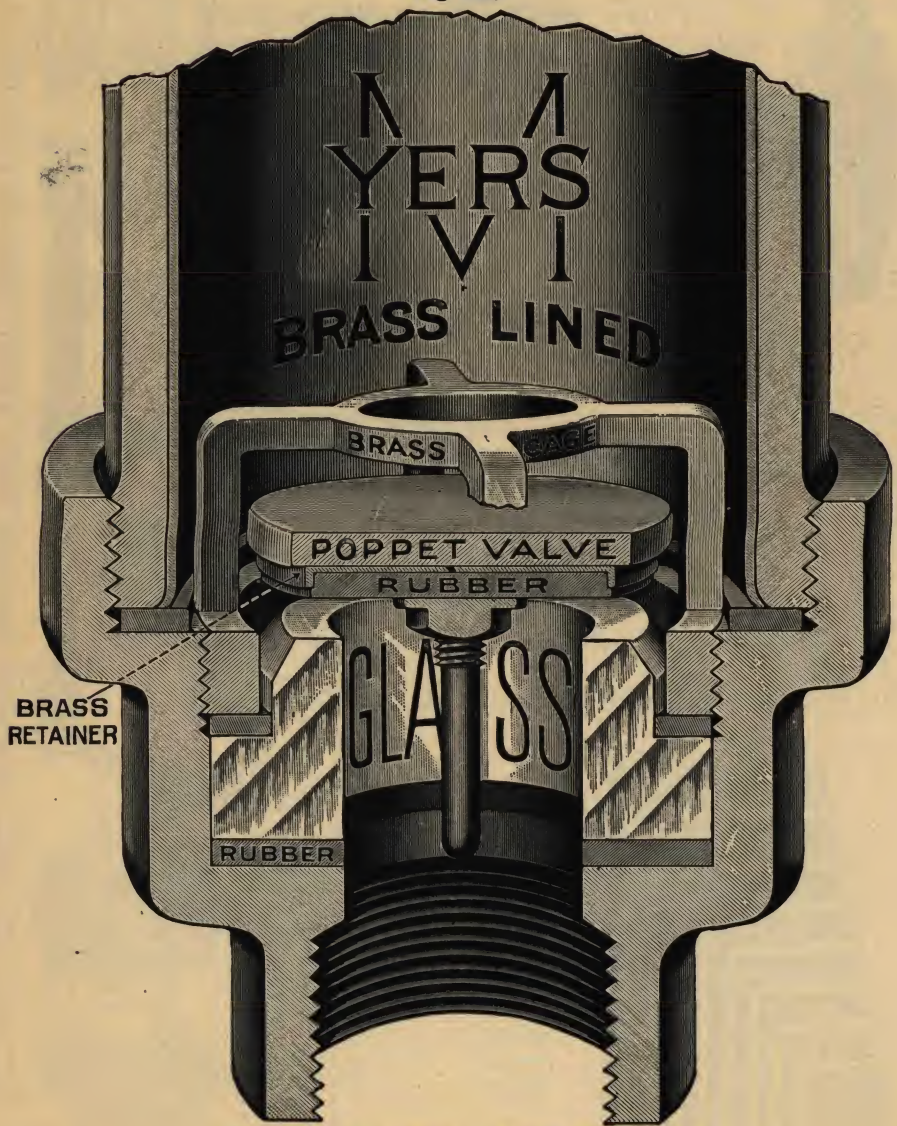
State if for Iron or Lead Pipe.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Patent Glass Valve Seat

Absolutely Non-Corrosive

Fig. 1020



Brass Lined Cylinder. Capped Outside.

Fig. 1020 is an exact reproduction of the Myers Glass Valve Seat and shows the Brass Retainer enclosing Rubber Face in the Poppet Valve. For strength, simplicity, durability and practical common sense features it has no equal.

MYERS SPRAY PUMPS FOR ALL PURPOSES

Bucket Spray Pumps for use in spraying gardens or a few trees, whitewashing chicken houses, hog pens and stables, extinguishing fires, washing windows, etc. Lever Bucket Pumps recommended for whitewashing.

Barrel Pumps for ordinary orchards, whitewashing factories, fences and general spraying.

Handy Sprayer on wheels for general utility work.

Cog Gear Spray Pumps always recommended.

Complete outfit No. R316B for large orchards.

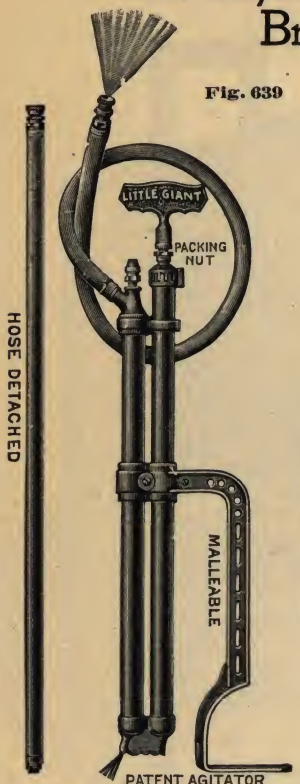
ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

The Myers Little Giant and Peerless Brass Spray Pumps.

Fig. 639



No. 327½.

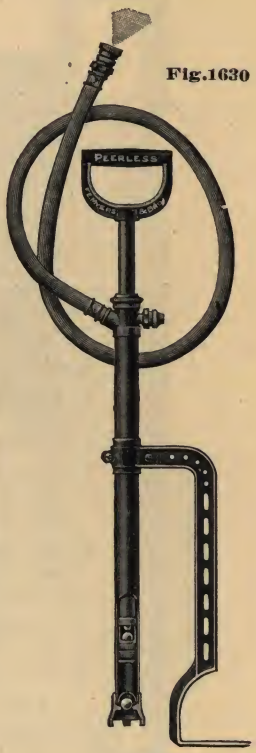
Fitted with Patent Agitator and Return Overflow Cap.

DETACHABLE HOSE.
BRASS BALL VALVES.

Showing Myers Spray Pumps Nos. 323-327½. Use Pipe Extension.

Each Bucket Spray Pump put up in separate shipping carton.

Fig. 1630



No. 323.

These spray pumps are constructed entirely of brass. They are so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up. The effect of this operation while pumping is to hold the pump down. The foot rest steadies the pump, holding it in proper position.

They are provided with a large air chamber, and have brass ball valves and detachable hose; the nozzle throws a continuous spray, and is not affected by the movement of the plunger. Will carry a pressure on the nozzle of from 50 to 100 lbs. with very ordinary exertion. Will throw a solid stream 50 feet, and are of unusual value for spraying trees, washing windows and buggies, extinguishing fires, sprinkling lawns, flowers, etc. For spraying are arranged to discharge a fine jet in the bottom of the bucket to keep the solution **thoroughly mixed and agitated,** a feature peculiar to these pumps only, and a very necessary one to any spray pump. The pumps are also provided with a sprinkler for flowers.

We *originated* the Brass Spray Pump with cylinder and air chamber side by side, by which all of the work is done on the down stroke.

A Spray Pump Without an Agitator is Not Practical.

PRICE LIST, Represented by Figs. 639 and 1630.

No. 327½, Fig. 639, Little Giant Brass Spray Pump, with agitator, complete with hose and Imperial combination fine, coarse spray and solid stream nozzle, with *malleable foot rest.* Price .....(*Friar*).. **$4.75**

No. 328, Fig. 639, Little Giant Brass Spray Pump, with agitator, complete with hose, Imperial combination fine, coarse spray and solid stream nozzle, *malleable foot rest* and an 8 foot pipe extension. Price .....(*Frustrate*).. **5.50**

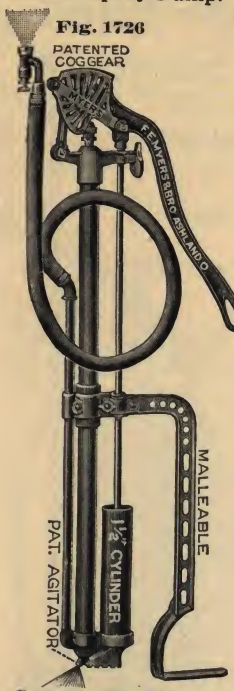
No. 323, Fig. 1630, Peerless Brass Spray Pump complete with hose and Imperial combination fine, coarse spray and solid stream nozzle, with *malleable foot rest.* Price..(*Puffy*).. **4.75**

For Vermorel or Bordeaux nozzle on any of the above pumps, add to list..... **.60**

Always Use Pipe Extension, You Get Better Results.

Myers Cog Gear Bucket Spray Pump.

Fig. 1726



No. R324.

Myers Cog Gear and Defiance Spray Pumps.

Fig. 1726 illustrates the Myers Bucket Spray Pump with Cog Gear Handle. This pump has 1½ inch diameter brass cylinder with solid plunger, brass ball valves, brass air chamber and discharge tube. The foot rest, head and cog gear handle are malleable iron. The large cylinder in combination with the cog gear handle makes this an exceptionally easy working pump of more than ordinary capacity. Has patented jet agitator which keeps liquid thoroughly mixed.

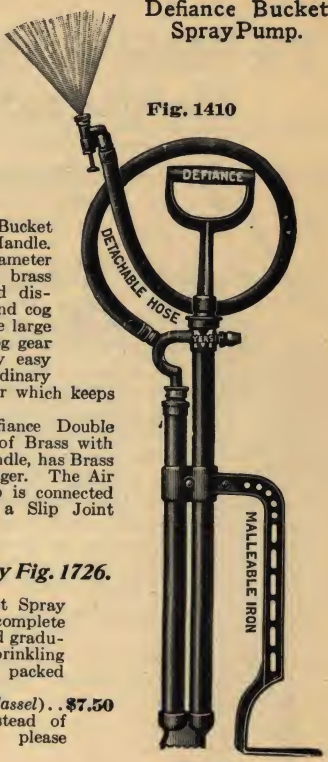
Fig. 1410 represents the Defiance Double Acting Spray Pump made entirely of Brass with the exception of Foot Rest and Handle, has Brass Ball Valves and Hemp Packed Plunger. The Air Chamber on the side of the Pump is connected to the main body by means of a Slip Joint tightly packed.

PRICE LIST, Represented by Fig. 1726.

No. R324, Myers Cog Gear Bucket Spray Pump, with agitator, complete with detachable hose and graduating Vermorel fine, sprinkling and solid stream nozzle, packed one in a carton.
Price .....(*Tassel*)..**$7.50**
If Bordeaux nozzle, instead of Vermorel, is wanted, please specify.

Defiance Bucket Spray Pump.

Fig. 1410

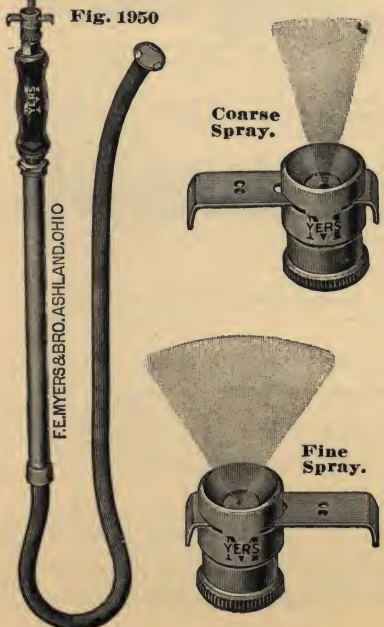


No. 319.

PRICE LIST, Represented by Fig. 1410.

No. 319, Myers Defiance Bucket Spray Pump, complete with hose and graduating Vermorel fine, coarse spray and solid stream nozzle.
Price .....(*Peat*)..**$7.50**
If Bordeaux nozzle, instead of Vermorel is wanted, please specify.

Fig. 1950



No. 317,

The Myers Ideal Spray Pump and Fire Extinguisher.

With Three Distinct Nozzles In One, Fine Spray For Close Work.
Coarse Spray for Long Distance Work.
Solid Stream for Extinguishing Fires, Washing Windows, Automobiles, etc.
Just Slide the Brass Plate and it will do the rest.
No Nozzle parts to remove, be replaced or lost.
Fig. 1950 represents the Ideal Spray Pump and Fire Extinguisher constructed entirely of Brass with Brass Ball Valves and Wood Hand Hold. The Plunger and all parts can be removed instantly for repairs or cleaning. Can be used with long length Suction Hose from barrel for wide range work.

PRICE LIST, FIG. 1950.

Put Up in Individual Cartons

No. 317, Myers Ideal Spray Pump and Fire Extinguisher complete with combination fine and coarse spray and solid stream Nozzle with 40 inches ½ inch hose. Price.....(*Timber*)..**$5.00**

The Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer

With Easy Operating Cog Gear Pump, Fitted with Patent Double Agitator.

Fig. 1736 represents the Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer, with patent Double Agitator—a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable, is held securely in place by two thumb nuts, one on each side which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

The pump is our No. R324 Cog Gear Bucket Spray Pump, as shown under Fig. 1736, fitted with Bordeaux nozzle, brass ball valves, and has both jet and dasher agitator. Cog Gear increases the leverage 33⅓%.

Fig. 1736

The Pump Has 1½ inch Cylinder. **No. R329.**

PRICE LIST, Represented by Fig. 1736.

No. R329, Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer, complete as illustrated in Fig. 1736. Price .....(*Tea*)..**$13.75**

The Myers Improved Faultless Sprayer.

Made in Brass and Tin. Throws a Spray as Fine as Mist. Kills, Drives Away and Exterminates Every Living Thing Obnoxious to Yourself, Your Animals or Your Crops.

Fig. 1877

WILL SPRAY DRY POWDER.

Is adapted for the destroying of insects, applying disinfectants to buildings, bushes etc.; also for applying fly chasers to animals and applying light floor oil.

The Improved Faultless Sprayer is absolutely the best constructed Sprayer of its class ever offered to the trade. For strength and durability, it has no equal. The tapering point to the air chamber gives great force to the Spray, carrying it to the greatest possible distance. The tapering tube of air chamber is passed through the reservoir and thoroughly soldered to it. The point of the air chamber and small tube through which the liquid passes are thoroughly protected from damage in use and shipping. The piston rod is a heavy steel spring wire with cup leather plunger.

PRICE LIST.

No. 1, Improved Faultless Sprayer, all tin. Price per dozen.....(*Fly*)..**$ 5.75**
No. 2, Improved Faultless Sprayer, all brass. Price per dozen.....(*Flyer*).. **17.00**
No. 3, Improved Faultless Sprayer, brass can, tin tube. Price per dozen.....(*Flynet*).. **14.00**
No. 4, Improved Faultless Sprayer, galvanized can, tin tube. Price per dozen.....(*Flyte*).. **7.00**
Notice: Keep leather plunger well oiled. Always clean reservoir with clean water before putting away.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Perfect and Panama Knapsack Spray Pumps.

Adopted and Recommended by the U. S. Government as the Best Distributor of Disinfectants for Mosquitoes and Other Poisonous Insects.

Made with Galvanized or Copper Tank and Equipped with Brass Spray Pump, with Large Air Chamber, Brass Ball Valves, Solid Plunger and Patent Agitator.

Fig. 1865

A First Class Outfit at a Reasonable Price.

Designed for Spraying and Disinfecting.

Showing a Myers Knapsack Spray Pump No. 330.

Fig. 1838

Specially Designed and Reinforced for U. S. Government Service.

Fig. 1865 represents the Myers Perfect and Panama Knapsack Spray Pumps which are complete in every respect ready to spray. The tank, made of either galvanized iron or copper, holds 5 gallons of mixture. It is heavily soldered, and is fitted with tight lid and strainer, both of which can be removed. It is shaped so that it can be carried on the back, and shoulder straps are provided for this purpose. Handle lever is arranged for shifting from right to left at will of operator.

The Spray Pump used in this Outfit is constructed entirely of brass. It is provided with a large air chamber, and has heavy brass cylinders, brass ball valves, patent agitator to keep liquid thoroughly mixed, 5 ft. ⅜ inch hose fitted with either Bordeaux or Vermorel nozzle, and iron pipe extension. Pump is also provided with regular handle and can be operated like any other bucket pump when desired.

This Outfit has been and is being used extensively by the United States Government, Large Corporations, Municipalities and Individuals in sanitary work of every description. During the building of the Panama Canal it was officially adopted and used by the Panama Canal Commission. Ship officers also find this an exceptionally handy and serviceable Outfit for similar work on boats.

The Panama Knapsack Pump has extra heavy brass cylinder, reinforced top and wire bound hose where attached to tank.

PRICE LIST, Represented by Fig. 1865.

No. 330P, The Myers Panama Galvanized Knapsack Spray Pump, fitted with 5 feet of ⅜ inch hose, stop cock, pipe extension and Bordeaux, or graduating Vermorel spray nozzle which can be graduated from a fine mist spray to a solid stream. Price.....(*Teste*).. **$15.00**

No. 331P, Myers Panama Copper Knapsack Spray Pump, complete with hose, stop cock, pipe extension and Bordeaux or graduating Vermorel nozzle, as shown in Fig. 1865. Price.....(*Tested*).. **22.50**

Do not use Sulphur in Copper Tank.

PRICE LIST, Perfect Knapsack.

No. 330, The Myers Perfect Galvanized Knapsack Spray Pump, fitted with 5 ft. of ⅜ in. hose, stop cock, pipe extension and Bordeaux, or graduating Vermorel Spray nozzle which can be graduated from a fine mist spray to a solid stream. Price.....(*Fuss*).. **$12.50**

No. 331, Myers Perfect Copper Knapsack Spray Pump, complete with hose, stop cock, pipe extension and Bordeaux or graduating Vermorel nozzle, as above.. Price.....(*Form*).. **20.00**

Do not use Sulphur in Copper Tank.

The Myers Pneumatic Compressed Air Sprayer.

With Self-Locking D-Handle and Screw Top.
With Adjustable Long Distance Spray Nozzle.

Fig. 1862

Fig. 1892

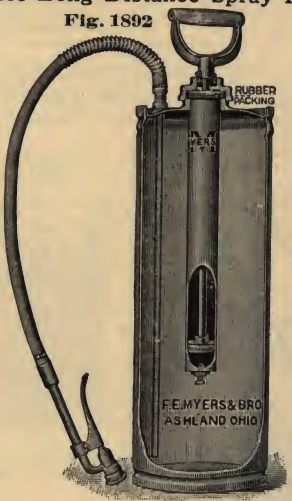


Fig. 1927
Valve.

Fig. 1873

Fig. 1862 illustrates the Myers Pneumatic Sprayer as built to meet the demands for this style of Spray Pump. It is made of heavy galvanized iron with 1¾" brass tube cylinder attached to the can by means of a heavy brass screw nut. The small diameter cylinder operates easier than larger sizes. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut. By means of these lugs and handle the nut can be screwed tightly to the top of the tank, and at the same time lock the plunger in opposition which also permits of the tank being carried by the handle when desired. In the Myers construction we have done away with the large butterfly nuts as used on others, which are very objectionable features owing to the fact that it is not only difficult to screw the cap perfectly tight but also very injurious to the hands in pumping.

THE HANDLE is D-shaped in form, and large enough to be operated by any one with perfect comfort.

THE NOZZLE is one of the special features of this Sprayer. By means of the small lever the spray can be adjusted from a broad fine spray, covering the ordinary distance into a complete long distance spray throwing water 25 feet, by means of which the top of any small fruit tree can be reached, as shown in Fig. 1873. This style nozzle is a patented article used only on Myers Pneumatic Sprayers.

Fig. 1892 shows Sectional View of Compressed Air Sprayer. Note—The packing ring is underneath the cylinder ring, not subject to friction in screwing on the cap—cannot be pushed out of position.

THE VALVE, Fig. 1927, a very important part of a pump of this kind, is simple and effective. Is made of a pliable rubber disk supported by metal plate held in position by a brass coil spring and brass stud, on which it operates. Can be removed instantly.

Fig. 1885 illustrates the use of Pipe Extensions on Compressed Air Sprayer.

Fig. 1885

PRICE LIST, Represented by Fig. 1862.

No. 296, Myers Pneumatic Sprayer complete with long distance nozzle as shown in Fig. 1862. Price.....(*Thedaid*)..**$7.50**
Extra Nozzle as used on Fig. 1862, each.....(*Thief*).. **1.35**

PIPE EXTENSION FOR COMPRESSED AIR SPRAYER.

Fig. 1884

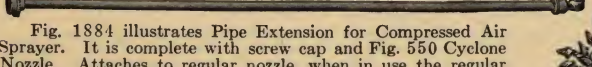


Fig. 1884 illustrates Pipe Extension for Compressed Air Sprayer. It is complete with screw cap and Fig. 550 Cyclone Nozzle. Attaches to regular nozzle, when in use the regular nozzle becomes a Controlling Valve.
Pipe Extension complete with nozzle, Fig. 1884.
List .....(*Thing*)..**$1.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Peerless Handy Sprayer.

For Spraying Trees, Bushes, Vines, Potatoes and Cotton With Any Soluble Mixture.

Will Throw a Fine Mist Spray or a Solid Stream.

Fig. 1883

TANK

Holds 5 Gallons.
Weight 50 Pounds when Full.

All Working Parts are Brass.

The Myers Handy Fire Pump.

For Use in Extinguishing Fire, Washing Automobiles, Windows, Etc.

Will Throw a Stream 45 Feet.

Fig. 1872

Fig. 1883 illustrates the Myers Peerless Handy Spray Pump as made to meet the requirements in handiness of operation, etc. It is designed for general spraying use or extinguishing fires, washing automobiles, windows, and for other purposes.

The Tank is made of heavy galvanized iron, holding 5 gallons when filled within 1½ inch of the top. One-half of the lid is hinged so as to open, giving access to the interior part of the tank.

The Pump is the Myers regular No. 323 Single Tube Double Acting Spray Pump, fitted with D-Handle, hose, etc., as described in list.

It is provided with a metal loop or foot-rest at the bottom of the tank, on which the operator stands to hold the tank in rigid position while pumping.

Fig. 1872 illustrates the Myers Handy Fire Pump as made to meet the Navy requirements in capacity, handiness of operation, etc. It is designed for use in extinguishing fires, (Forest Rangers recommend it highly,) washing automobiles, windows and other purposes. Is furnished with solid stream nozzle only. The tank and pump are the same as used on the Handy Spray Pump described above.

PRICE LIST, Represented by Figs. 1883 and 1872.

No. 298, Myers Peerless Handy Spray Pump complete, 5 gallon tank, with pump, hose, 4 foot pipe extension, solid stream male end and Fembro Nozzle, as shown in Fig. 1883. Price .....(*Thigh*).. **$10.00**

No. 395, Myers Handy Fire Pump complete, 5 gallon tank, hose and fire nozzle as shown in Fig. 1872. Price .....(*Theban*).. **8.75**

The Myers Improved Brass Barrel Spray Pump.

Plain Handle.

Cylinder, Valves, Valve Seats and Discharge All Brass.
All Working Parts Submerged in Liquid, Hence No Priming Necessary.

Has Mechanical Agitator.

Fig. 1456

Represents No. 305B. Barrel Not Included.

Fig. 1194 **Fig. 1192**

Self-Expanding Hemp Packed Plunger.

Fig. 1467

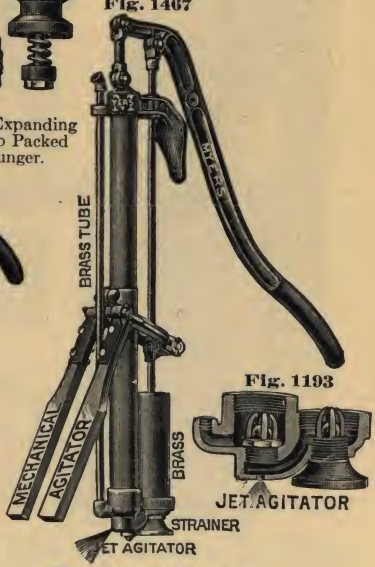


Fig. 1193

Represents No. 304.

Figs. 1456 and 1467 illustrate a spray pump of a construction that is the very best in all its parts; the entire pump sets inside the barrel containing the liquid, being bolted fast at its upper end to the barrel staves; the working parts are entirely submerged in the liquid, avoiding all possibilities of losing priming.

Has Bronze Ball Valves and Brass Seats; the plunger is brass, fitted with hemp packing. Will handle hot, cold or any caustic mixture. The cylinder and discharge pipes are all brass. The air chamber is 30 inches in length, enabling the pump to throw a uniform and elastic spray. It has good leverage, is very powerful and easily operated.

Barrel Not Included in This List.

PRICE LIST, Represented by Figs. 1456 and 1467.

No. 304, Myers Improved Brass Barrel Spray Pump, Fig. 1467, with *mechanical agitator*, but without hose or nozzle. Price.....(*Polar*).. **$12.00**

No. 305B, Myers Improved Barrel Spray Pump complete, Fig. 1456, with one lead of 15 feet of ½ inch 5 ply discharge hose, graduating Vermorel nozzle and *mechanical agitator*.
Price .....(*Pontic*).. **16.00**
5 ply hose. Price per foot.....(*Feet*).. **.25**
Bordeaux instead of Vermorel nozzle furnished without extra charge when specified.

Always Use Mechanical Agitator and Pipe Extension—You Get Better Results.

The Myers Cog Gear Barrel Spray Pump.

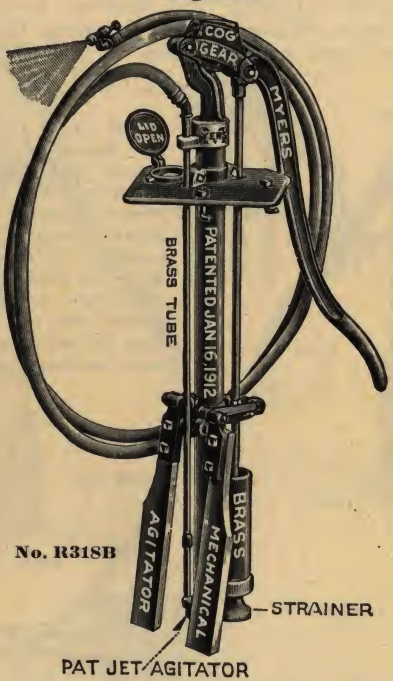
PATENTED JAN. 16, 1912.

With Malleable Iron Base.

CYLINDER, VALVES, VALVE SEATS AND DISCHARGE ALL BRASS.

PIPE EXTENSION. Fig. 480

Fig. 1521



No. R318B

All Working Parts Submerged in Liquid, Hence No Priming Necessary.

Has Mechanical Agitator.

Size of Hole to Cut in Barrel 8 x 8 Inches.

Showing a Myers Barrel Outfit, Fig. 1520.

PATENTED COG GEAR

Sectional View of Cog Gear. Something Different.

Fig. 1194

Fig. 1192

Fig. 1193

Fig. 1194 represents the new self-expanding hemp packed Brass Plunger, which is furnished with all Myers Improved Brass Barrel Spray Pumps.

Fig. 1192 represents the parts of the self-expanding plunger with the packing removed, which shows the expanding spring exposed immediately below the plunger castings.

Fig. 1193 represents a sectional view of the bottom casting, showing the manner in which the brass seats and brass ball valves are arranged.

Fig. 1521 illustrates the Myers Cog Gear Barrel Spray Pump. The construction is such that the entire pump sets inside the barrel containing the liquid, being bolted fast at its upper end to the head of the barrel. By this arrangement the working parts are entirely submerged in the liquid that is to be sprayed, thereby avoiding all possibilities of losing priming, doing away with the necessity of a suction pipe, placing the agitator in the bottom of the liquid in a simple form, and also doing away with a large amount of complicated parts. Base fits 8 x 8 inch hole.

Has Bronze Ball Valves and Brass Seats; the plunger is brass, fitted with hemp packing. Will handle hot, cold or any caustic mixture. The cylinder and discharge pipes are all brass. The air chamber is 32 inches in length, enabling the pump to throw a uniform, constant and elastic spray. It has good leverage, is very powerful and easily operated.

PRICE LIST, Represented by Fig. 1521.

No. R318, Myers Cog Gear Barrel Spray Pump only, with *mechanical agitator*, but without hose or nozzle. Price.....(*Poult*)..**$13.00**

No. R318B, Myers Cog Gear Barrel Spray Pump complete, Fig. 1521, with one lead of 15 feet of ½ inch 5 ply discharge hose, graduating Vermorel nozzle, and *mechanical agitator*, Price .....(*Pounce*).. **17.50**

5 ply Hose. Price per foot.....(*Feet*).. **.25**

Bordeaux instead of Vermorel nozzle furnished without extra charge when specified.

ALWAYS USE PIPE EXTENSION—YOU GET BETTER RESULTS.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

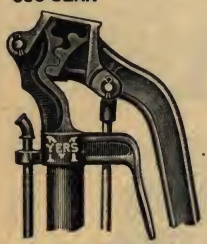
The Myers Portable Sprayer.

PATENTED JAN. 16, 1912.

With Cog Gear Spray Pump and Dasher Agitator.

Made of Extra Heavy Galvanized Iron; Capacity 12½ Gallons; Suitable for Greenhouse Work, Spraying Trees, Whitewashing, Painting, Etc. A General Utility Pump for the Home.

PATENTED COG GEAR



Sectional View of Cog Gear. Something Different.

Fig. 1843

Fig. 1843 represents the Pump used in the Myers Portable Handy Sprayer which has much larger capacity than ordinary pumps of this class — Cylinder is 2 inches in diameter. Patented Cog Gear Handle makes the operation as easy as other pumps of much smaller capacity.

Fig. 1614

Fig. 1690

Figs. 1614 and 1690 illustrate the Myers Portable Sprayer as made for general use as a handy outfit about the home, greenhouse or orchard.

The pump is similar to our No. R318B fitted with cog gear handle and dasher agitator. The pump is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank held in position by one thumb screw. The handle can be located at any point desired.

Fig. 1614, Recommended for outside work.

Fig. 1690, Specially designed for inside work as the short handles permit turning in narrow alleys.

PRICE LIST, Represented by Figs. 1614 and 1690.

No. R337B, Myers Portable Sprayer, Fig. 1690, complete as shown in illustration, with Dasher Agitator, 15 feet ½″ 5 ply discharge hose, 8 foot Extension and Vermorel Nozzle. Price .....(*Table*).. **$31.00**

No. R336B, Myers Handy Portable Sprayer, Fig. 1614, complete as shown in illustration, with Dasher Agitator, 15 feet ½″ 5 ply discharge hose, 8 foot extension and Vermorel Nozzle. Price .....(*Puff*).. **31.00**

Bordeaux nozzle furnished instead of Vermorel, if specified on order.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

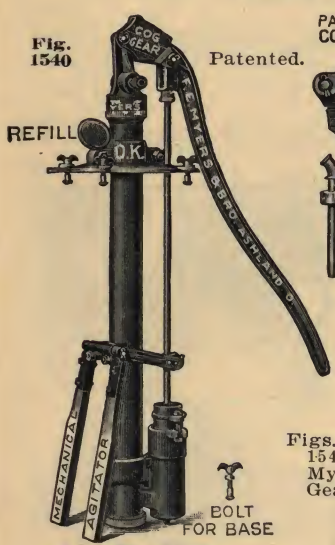
The Myers O. K. Cog Gear Spray Pump.

PATENTED JAN. 16, 1912,

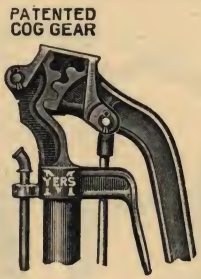
With Malleable Iron Base and Handle.

For Hot, Cold or Any Kind of Mixture. Has Mechanical Agitator, Solid Brass Ram Plunger, Ground Bevel Valve and Seat.

Fig. 1540



Patented.



Size of hole to cut in barrel 9x9 inches.

Figs. 1540, 1541 and 1542 illustrate the Myers O. K. Cog Gear Spray Pump.

Rep. No. R308.

Fig. 1541

PATENTED.

Rep. No. R308B.

Fig. 1542

PATENTED.

Rep. No. R308C.

The cog gear increases the leverage 33⅓% over the ordinary plain handle. The special features are the cog gear, the malleable iron base, which is adjustable and is made for end or side of barrel; base for end of barrel is furnished regularly. **If pump is wanted for side of barrel, must be stated on order.** The plunger is a solid brass tube with closed end, is outside packed, with hemp packing. The packing gland is adjusted by two bolts. The valve and seat are hard brass. The air chamber is 2½ inch. This in connection with the cog gear enables the operator to carry a pressure of 200 or more pounds, if necessary.

PRICE LIST, Represented by Figs. 1540, 1541 and 1542.

No. R308, Myers O. K. Spray Pump, as shown in Fig. 1540. Price, each..(*Power*)..**$22.50**

No. R308B, Outfit same as above, with one lead of 15 ft. of 7 ply, ⅜ in. discharge hose and one Fembro (Fig. 1290) nozzle. Price, each .....(*Pox*).. **28.50**

No. R308C, Same outfit with two leads of 15 ft., 7 ply, ⅜ in. hose and two Fembro (Fig. 1290) nozzles. Price, each..(*Prad*).. **34.50**

7 ply superior hose, our brand.
Price per ft.....(*Fray*).. **.30**

Barrel not included in above prices.

The Myers O. K. Cog Gear Spray Pump.

PATENTED JAN. 16, 1912.

With Malleable Iron Base.

Mounted Complete with Fifty Gallon Barrel.

Has Mechanical Agitator, Solid Brass Ram Plunger. Ground Bevel Valve and Seat.

PATENTED COG GEAR

Sectional View of Cog Gear. Something Different.

PATENTED.

Fig. 1570

Showing the Myers Spray Pump No. R299B.

Represents No. R299B Complete with Barrel and Skids.

Fig. 1570 illustrates the O. K. Spray Pump mounted on barrel, complete with hose, pipe extension, nozzle and mechanical agitator. The pump is same as No. R308B, except the base. The cylinder is what is known as a ram plunger, made of a solid brass tube with a closed end, which passes through a circular hemp packing, which adapts it for pumping hot, cold or any kind of mixture. The packing gland is adjusted by means of two heavy bolts, with which all wear can readily be taken up. The valve and seat are made of ordinnary brass, ground in a bevel shape.

Another special feature of this pump is that by removing two bolts the valves can be readily taken out and repaired. The air chamber is made of 2½ inch steel tube. The cog gear handle enables the operator to carry a pressure of 200 lbs. or more if necessary.

PRICE LIST, Represented by Fig. 1570.

No. R299B, Outfit as above, complete with one lead of 15 feet of 7 ply discharge hose, 8 foot iron pipe extension and Fembro Fig. 1290 Nozzle.....(*Prone*).. **$37.50**

No. R299C, Same with two leads of 15 feet each ⅜ inch hose and nozzles.....(*Proof*).. **44.00**
7 ply superior hose, our brand. Price per foot.....(*Fray*).. **.30**
Price includes barrel and skids.
Nozzles, hose attachments, etc., see list.

The Myers Steel Barrel Cart.

Fig. 1520

Three Inch Tire.

Fig. 1520 represents our new All Steel Barrel Cart, attached to barrel; has 36 inch steel wheels with three inch tire.

No tires to get loose, or wood to break or rot when standing out in the weather. Any Myers Barrel Spray Pump can be used with it.

PRICE LIST of Steel Barrel Cart.

STEEL CART ONLY, ready to attach to barrel....(*Flutter*).. **$15.00**
Barrel, extra. Price.....(*Foam*).. **9.00**

The Myers Potato Sprayer.

Fig. 1583 shows nozzles and supports in detail, also flexibility; can pass over any ordinary obstruction without injury to sprayer or nozzles.

Fig. 1583

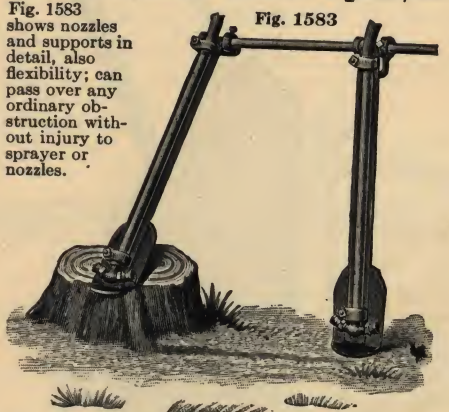


Fig. 1582

Fig. 1582 illustrates the latest improved manner of spraying potatoes. The spray strikes the potatoes from the side instead of on top, as in old style sprayers. The Myers Potato Sprayer covers three rows complete. It is a practical device, can be mounted on an ordinary wagon box, is adjustable to rows of any width apart, and also adjustable to any height desired. The latter adjustment is done by means of a lever and rack.

NOTE—The particular improved feature of this sprayer is that the nozzles are located near the ground, and one on each side of the row. The spray is forced in an upward direction against the side of the vines, thus spraying the under side of the leaves,—the place where the younger bugs are always located. This is most important. It is equipped with six nozzles, two to each row.

The outfit is furnished complete as shown in the cut, *except barrel, pump and wagon.* It requires a large capacity pump to supply the six nozzles, hence is recommended for use in connection with pumps No. R309, Fig. 1413, No. R308 O. K., or No. 310 Perfect Barrel Spray Pump.

PRICE LIST, Represented by Fig. 1582.

Myers Three Row Potato Sprayer, complete as shown in Fig. 1582, *except pump and barrel.*
Price, each.....(*Prize*). **$22.50**

The Myers Cog Gear Double Acting Spray Pump.

PATENTED.

With Brass Valves and Ground Bevel Brass Seats, 2 inch Seamless Brass Removable Cylinder. Hemp Packed Plunger.

Fig. 1413

Rep. No. R309.

Myers Duplex Cog Gear Hand Spray Pump.

PATENTED.

Vertical Cylinders. Double Acting.

Fig. 1490

Rep. No. R442.

One special feature of this pump is that it has a valve located between the air chamber and pump, which retains the pressure of the air chamber on the nozzles and relieves the valves of the pump from all strain.

THE VALVES: It has brass valves and ground brass bevel valve seats located under separate caps.

THE PLUNGER IS BRASS, HEMP PACKED, which adapts it to handling any kind of material, no matter how caustic, and either hot or cold.

THE CYLINDER is a seamless drawn brass tube 2 inches in diameter, extending full length, removable by using an ordinary wrench.

Fig. 1490 illustrates the Myers Cog Gear Vertical Cylinder Double Acting Spray Pump, brass fitted throughout. The Plungers proper are made of 2 inch heavy seamless drawn brass tubing, which work through a gland packed liberally with hemp packing. The Valves and Seats are brass, poppet pattern, bevel, ground in.

PRICE LIST, Represented by Figs. 1413 and 1490.

No. R309, The Myers Cog Gear Spray Pump, with pressure gauge and strainer. Price..(*Pacer*).. **$31.00**

No. R309A, As above, fitted complete with 6 feet of wire bound suction hose, two 8 foot pipe extensions, and two Fembro Fig. 1290 nozzles. Price.....(*Pacha*).. **37.50**

No. R309B, Pump complete with pressure gauge, 6 feet of suction hose, one 15 foot lead of ⅜" 7 ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 foot pipe extension. Price..(*Poath*)... **40.00**

No. R309C, Pump complete with pressure gauge, 6 feet of suction hose, two 15 foot leads of ⅜" 7 ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 foot pipe extensions. Price..(*Pocan*).. **47.00**

No. R442, The Myers 2 inch Duplex Cog Gear Vertical Cylinder Hand Spray Pump, fitted with pressure gauge and double discharge. Price.....(*Probal*).. **44.00**

No. R442A, As above, fitted with pressure gauge, double discharge, 6 feet of wire bound suction hose, two 8 foot pipe extensions, and two Fembro Fig. 1290 Nozzles. Price.....(*Prod*).. **50.00**

No. R442B, Pump, complete with pressure gauge, 6 feet of suction hose, one 15 ft. lead of ⅜" 7 ply discharge hose, one 8 ft. pipe extension, one Fembro Fig. 1290 Nozzle. Price..(*Proem*).. **53.00**

No. R442C, Pump, complete with pressure gauge, 6 feet of suction hose, two 15 foot leads of ⅜" 7 ply discharge hose, two 8 ft. pipe extensions, two Fembro Fig. 1290 Nozzles. Price..(*Profit*).. **59.50**

7 ply discharge hose. Price per foot.....(*Fray*).. **.30**

6 feet of wire bound suction hose complete. Price.....(*Pachak*).. **4.50**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Cog Gear Spray Pump, Double Acting.

PATENTED.

Complete Outfit,
Mounted on Platform with 50 Gallon Barrel and Mechanical Agitator.

With Brass Valves and Ground Bevel Brass Seats, 2 inch Seamless Brass Removable Cylinder, Hemp Packed Plunger, Double Lever Shut Off Discharge.

Fig. 1518

Showing Myers Spray Pump No. R316C.

VALVE AND SEAT.

For description of pump see Fig. 1413, Page 226.

Rep. No. R316B.

SPECIAL FEATURES: Cog Gear Movement, increased leverage adapted for spraying under heavy pressure, mounted complete, occupying smallest possible space. Capacity sufficient for 8 nozzles; well adapted for spraying potatoes. Will set in an ordinary farm wagon box.

PRICE LIST, Represented by Fig. 1518.

No. R316B, Pump complete, 50 gallon barrel mounted on skids, with pressure gauge, one 15 foot lead of ⅜ inch 7 ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 foot pipe extension with lever shut off and mechanical agitator. Price.....(*Pottle*).. **$50.00**

No. R316C, Pump complete, 50 gallon barrel mounted on skids, with pressure gauge, two 15 foot leads of ⅜ inch 7 ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 foot pipe extensions with lever shut-offs and mechanical agitator. Price.....(*Pouch*).. **56.00**

PRICE LIST of 2 Inch Duplex Pump Mounted as Above.

No. R444B, Pump complete, 50 gallon barrel mounted on skids, with pressure gauge, one 15 foot lead of ⅜ inch 7 ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 foot pipe extension with lever shut off and mechanical agitator. Price.....(*Prog*).. **62.50**

No. R444C, Pump complete, 50 gallon barrel mounted on skids, with pressure gauge, two 15 foot leads of ⅜ inch 7 ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 foot pipe extensions, with lever shut-offs and mechanical agitator. Price.....(*Proin*).. **69.00**

Best 7 ply discharge hose, price per foot.....(*Fray*).. **.30**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Cog Gear Spray Pump, Double Acting.

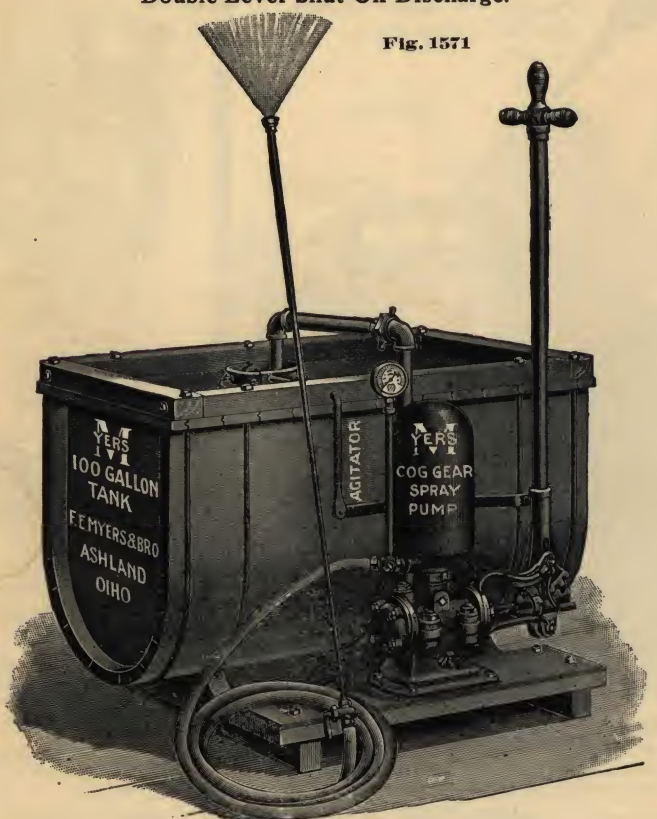
PATENTED.

Complete Outfit, with 100 Gallon Tank and Mechanical Agitator. Mounted on Platform.

With Brass Valves and Ground Bevel Brass Seats, 2 Inch Seamless Brass Removable Cylinder, Hemp Packed Plunger.

Double Lever Shut-Off Discharge.

Fig. 1571



Rep. No. R317B.

For description of the pump see Fig. 1413, page 226.

SPECIAL FEATURES: Large capacity tank, holding 100 gallons; Mechanical Agitator; Cog Geared Double Acting Pump with large capacity. The cog gear movement increases the leverage over 33⅓%, adapting it for spraying under heavy pressure. Mounted complete, occupying smallest space possible. Can be placed in the ordinary wagon box.

PRICE LIST, Represented by Fig. 1571.

No. R317B, Pump complete with 100 gallon tank and mechanical agitator, mounted on skids, with pressure gauge, one 15 foot lead of ⅜ inch 7 ply discharge hose, one Fembro Fig. 1290 nozzle, one 8 foot Fig. 1535 pipe extension with lever shut-off. Price, each..(*Prime*)..**$69.00**

No. R317C, Pump complete with 100 gallon tank and mechanical agitator, mounted on skids, with pressure gauge, two 15 foot leads of ⅜ inch 7 ply discharge hose, two Fembro Fig. 1290 nozzles, two 8 foot Fig. 1535 pipe extensions with lever shut-off. Price, each..(*Primer*).. **75.00**

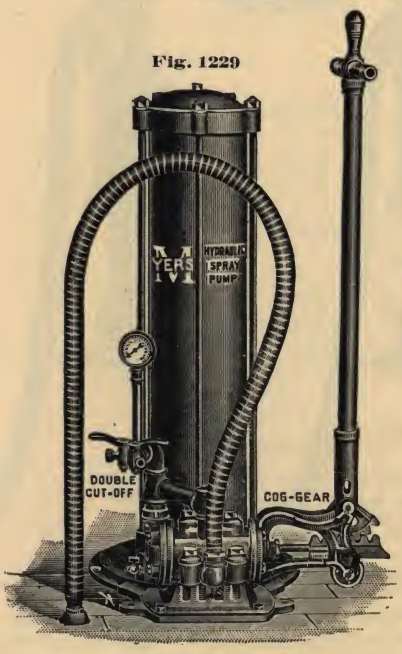
Best 7 ply discharge hose. Price, per foot.....(*Fray*).. **.30**

The Myers Cog Gear Hydraulic Spray Pump, Double Acting.

PATENTED.

Built Especially for Large Orchards. The Best of Its Kind.

Fig. 1229

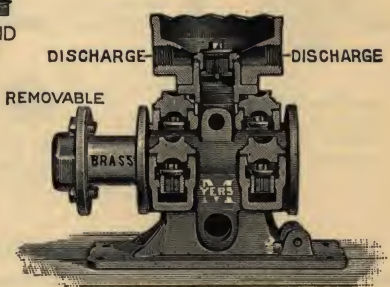


Rep. No. R335.

VALVE AND SEAT.

Showing Myers Spray Pump No. R335C.

Fig. 1365



View Showing Removable Cylinder and Elevation of Valves in Fig. 1229.

One special feature of this pump is that it has a valve located between the air chamber and pump, which retains the pressure of the air chamber on the nozzles and relieves the valves of the pump from all strain.

THE VALVES: It has brass valves and ground brass bevel valve seats. The valves are located on the side of the pump and are easily reached by removing the nut immediately over the valve, which can be done with an ordinary monkey wrench without disturbing the air chamber, suction or discharge pipe. This is a special feature found only in the Myers Cog Gear Spray Pump, see Fig. 1365.

THE PLUNGER IS BRASS, HEMP PACKED, which adapts it to handling any kind of material, no matter how caustic and either hot or cold.

THE CYLINDER is a seamless drawn brass tube 2 inches in diameter, extending full length, removable by using an ordinary wrench. Air chamber 8″ x 36″.

PRICE LIST, Represented by Fig. 1229.

No. R335, Pump with pressure gauge and 6 feet of 1 inch wire bound suction hose..(*Pachy*).. **$46.00**

No. R335A, Pump with pressure gauge, 6 feet suction hose, two Fembro Fig. 1290 nozzles and two 8 foot pipe extensions. Price.....(*Pack*).. **50.00**

No. R335B, Pump complete with pressure gauge, 6 feet of suction hose, one 15 foot lead of ⅜ inch 7 ply discharge hose, one Fembro Fig. 1290 nozzle and one 8 foot pipe extension. Price .....(*Plyer*).. **53.00**

No. R335C, Pump complete with pressure gauge, 6 feet of suction hose, two 15 foot leads of ⅜ inch 7 ply discharge hose, two Fembro Fig. 1290 nozzles, two pipe extensions. Price .....(*Pock*).. **59.50**

Best 7 ply discharge hose. Price per foot.....(*Fray*).. **.30**

For the above pump fitted for four leads of discharge hose, add to list..... **2.00**

This Hydraulic Pump is Especially Adapted for Large Orchard Requirements.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Double Acting Barrel Spray Pump.

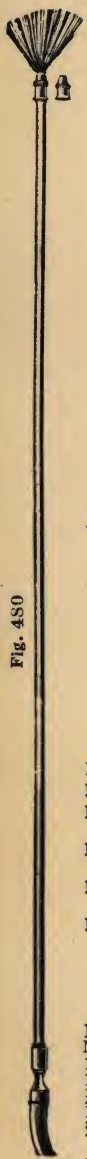
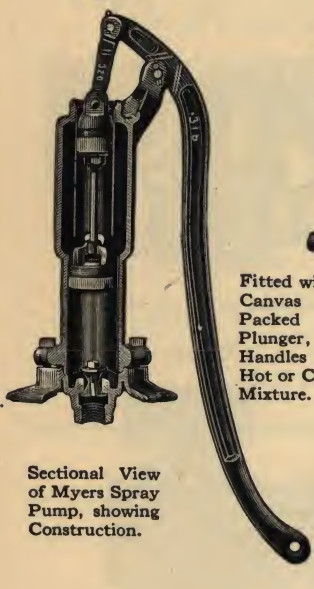


Fig. 480

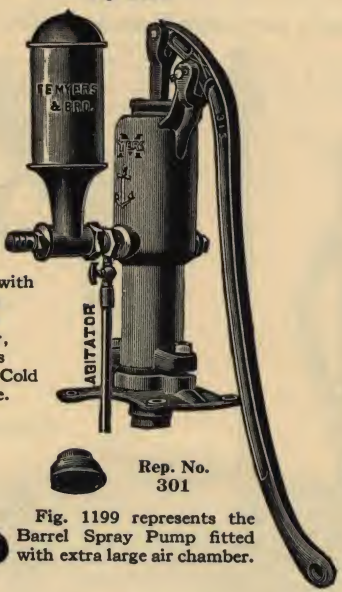
With Brass Upper and Brass Lined Lower Cylinders, Brass Bucket, Valve Seat and Valve. All Working Parts are Brass.

Fig. 542



Sectional View of Myers Spray Pump, showing Construction.

Fig. 1199

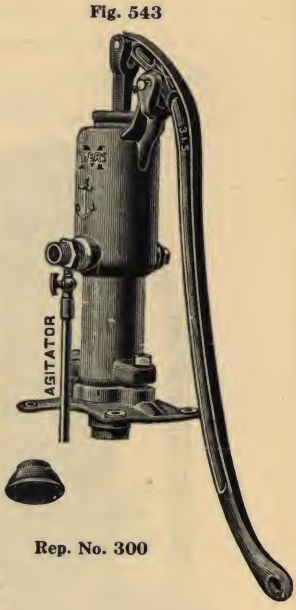


Fitted with Canvas Packed Plunger, Handles Hot or Cold Mixture.

Rep. No. 301

Fig. 1199 represents the Barrel Spray Pump fitted with extra large air chamber.

Fig. 543



Rep. No. 300

PRICE LIST.

No. 300,	Fig. 543, pump only, with strainer and jet agitator. Price	*(Fable)*	**$ 11.00**
No. 301,	Fig. 1199, pump only, with extra air chamber, strainer and jet agitator. Price	*(Fag)*	**14.00**
No. 302,	Fig. 543, complete, consisting of pump, 15 feet of ½ inch 5 ply hose, Vermorel spray nozzle, suction pipe, strainer and jet agitator. Price	*(Face)*	**17.00**
No. 302B,	Complete pump, 15 feet of ½ inch 5 ply hose, Vermorel spray nozzle, suction pipe, strainer and **mechanical agitator.** Price	*(Poler)*	**18.00**
No. 303,	Fig. 543, complete, consisting of pump, suction pipe, strainer and jet agitator, 2 leads of ½ inch 5 ply hose, 15 feet long, and two Vermorel spray nozzles. Price	*(Fame)*	**22.00**
No. 303B,	Same as No. 303, except **has mechanical agitator.** Price	*(Prop)*	**23.00**

Bordeaux nozzles, instead of Vermorel, furnished at the same price, if specified.

Barrels not included in this list.

Additional Fixtures as Follows:

Extra air chamber, as shown in Fig. 1199. Price each	*(Fist)*	**$2.50**
Mechanical agitator. Price	*(Find)*	**1.25**
1 inch iron suction pipe, 29 inches long. Price	*(Fall)*	**.75**
1 inch 4 ply suction hose, extra quality. Price per foot	*(Fast)*	**.75**
½ inch 5 ply spray hose. Price per foot	*(Feet)*	**.25**
1 pair ¾ inch discharge hose couplings and wire hose band. Price each	*(Fidge)*	**.40**
¾ inch hose nipple to attach discharge hose. Price each	*(Fire)*	**.50**

Mechanical agitator, add $1.25 to list of Spray Outfit, except on Nos. 302B and 303B.

Our Spraying Calendar gives, in the most concise form, the methods and time for treatment of our principal fruit trees. Write for a copy of it.

ALWAYS USE MECHANICAL AGITATOR—YOU GET BETTER RESULTS.

World's Fair Awards "Myers Spray Pumps.—Good construction and workmanship, also operation."

MYERS
POWER SPRAY PUMPS

FOR USE WITH GASOLINE ENGINE

Recommended for Use in all Orchards of Three Acres or Over

The Myers Special Power Spray Outfits for small orchards.

The Duplex Power Spray Outfits for general spraying.

The Automatic Power Spray Pump is recommended as the very best spray pump on the market, as it automatically controls the pressure, never allowing it to raise above a predetermined point, and is as nearly fool-proof as any spray pump can be built.

We recommend belt driven pumps under all circumstances, as the user can very easily mount or dismount his engine, and it is less liable to breakage from strain.

Nozzles, Fixtures and Spray Formulae.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Automatic Power Spray Pump.

PATENTED.

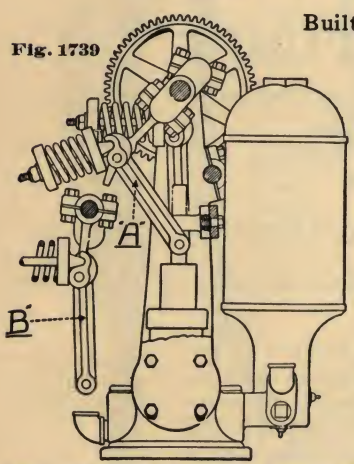
With Automatic Pressure Governor. No Relief Valve.

DUPLEX VERTICAL CYLINDERS. MACHINE CUT GEARS.

Automatic Control. Insures Safety. Secures Uniform Pressure and Eliminates Unnecessary Wear. Plunger Guide above Plunger Eliminates all Side Thrust and Reduces Wear. Belt Driven. Brass Fitted Throughout. Forged Steel Crank Shaft. All Boxes Babbitted.

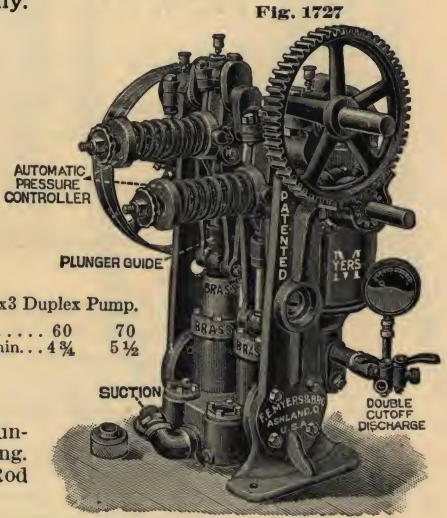
Built with 2 Inch Cylinders Only.

Fig. 1739



"A"—Position of Plunger Connecting Rod unlocked from crank shaft while not pumping.
"B"—Position of Plunger Connecting Rod locked into position while pumping.

Fig. 1727



Capacity 2x3 Duplex Pump.

R. P. M.....	60	70
Gals. per min...	4¾	5½

Fig. 1727 illustrates the Myers Duplex Power Spray Pump with patented Automatic Pressure Governor. This pump has all the desirable features found in the regular line of Myers Duplex Power Spray Pumps: viz., vertical cylinders, renewable brass valves and seats, large stuffing boxes fitted with brass glands and followers, large air chamber, machine cut gears, ample crank shaft and connecting rod bearings, etc. In addition it is fitted with a patented Automatic Pressure Governor which eliminates the trouble causing relief valve, and briefly, has the following advantages over the ordinary construction—Safety. Pressure relief is not dependent on the operation of a sluggish or defective relief valve—Uniform pressure regulation. The governing mechanism is not exposed to the clogging or corrosive action of the spray liquid which always effects the operation of the relief valve—Elimination of unnecessary wear. Plungers and valves are in action only when spray material is passing through the nozzles.

In operation the Automatic Pressure Governor has for its object the positive control of the pump pressure. This is accomplished by a simple arrangement of a combined lever and spring on each plunger connecting rod, (See A and B Fig. 1739) which, when the pressure reaches a predetermined limit, (say 250 lbs.) automatically stops the plungers by unlocking them from the driving crank shaft without interrupting the driving power, and again permits them to resume operation when the pressure falls below this limit; also removes the entire load on engine causing it to run idle, (saves gasoline).

PRICE LIST, Represented by Fig. 1727.

No. 449, Myers Automatic Power Spray Pump, with 2 x 3 inch duplex cylinders, fitted with patented Automatic Pressure Governor, Belt Pulley 14 x 3 inch, Pressure Gauge, Double Cut-off, Discharge and Strainer. Price.....(*Task*)..**$100.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Automatic Power Spray Outfit.

PATENTED.

Fitted With Automatic Duplex Pump.

Complete Except Engine.

Belt Driven. Simple, Strong and Efficient.

The Automatic Pressure Governor Insures Safety, Secures Uniform Pressure and Eliminates Unnecessary Wear. Relief Valves Not Required.

Fig. 1880

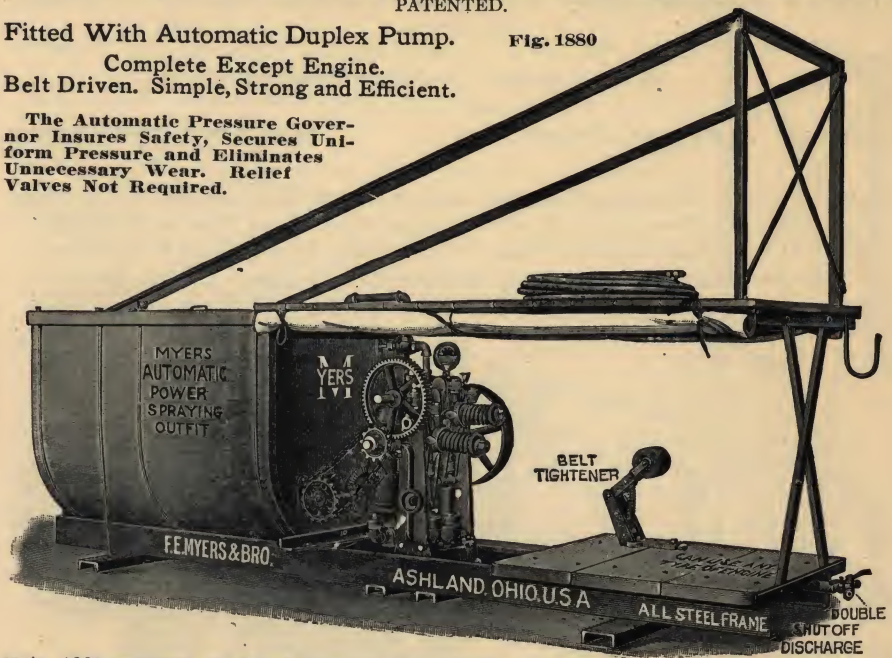


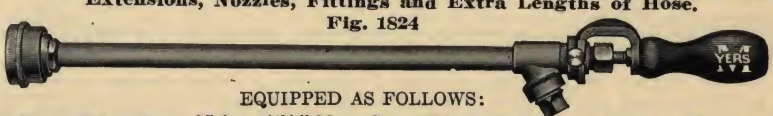
Fig. 1880 represents the Myers Automatic Spray Outfit, which is furnished complete including hose, spray gun, pump, tank, agitator, etc.; in fact everything with the exception of the engine and wagon truck. The pump is supported on channel bars riveted to the frame. The engine is mounted on a 2 inch plank platform, the object being to supply a construction that the consumer who is familiar with the use of the ordinary gas engine, can set it on the rig and dismount when wishing to use it for other purposes without requiring the services of a machinist. The entire framework is made of channel and angle iron, making a very stiff frame with the least possible weight. The tank is made of selected cypress, is fitted with rotary agitator with wooden blades. The agitator is driven by bevel gear and link chain, which makes a flexible joint and relieves the tank from all strain. The frame is fitted with two cross channel bars on the underside, which fit over the bolsters of the wagon, preventing forward or backward movement. The cab has heavy canvas curtains for protection of the engine and pump. The guard rails on top are to prevent the operator from falling off, and fold flat for transportation or storage.

The Myers Power Spray Gun.

Length Over All 26 Inches.

Utilizes the Entire Capacity of the Pump and Does Away With All Bamboo Extensions, Nozzles, Fittings and Extra Lengths of Hose.

Fig. 1824



EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of ½" Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cut-off for discharge lines, pressure gauge, rotary agitator and belt tightener. Suction pipe taken from bottom of tank with cut-off.

PRICE LIST, Represented by Fig. 1880.

FOR 1½ TO 2 H. P. ENGINE.

No. 20, Myers Automatic Spray Outfit, with 100 gallon tank, fitted with No. 449, 2 inch Automatic Spray Pump. Equipped as specified above. Price.....(*Thesis*).. **$200.00**

No. 25, Myers Automatic Spray Outfit with 150 gallon tank, fitted with No. 449, 2 inch Automatic Spray Pump. Equipped as specified above. Price.....(*Theta*).. **213.00**

Extra Lengths ½" Myers Spray Electric High Pressure Hose, per foot.....(*Theme*).. **.50**

The above spray rigs are all belt driven and carried regularly in stock. If gear driven pumps are required they must be built special and add to the above list $12.50 per outfit.

SPECIAL EQUIPMENT.

If the above rigs are wanted with old style equipment, including 50 feet of ⅜" best grade high pressure discharge hose and fittings complete for two leads, two 10 ft. bamboo pipe extensions complete with lever shut-off, four Fembro Nozzles (two straightaway and two 45 degree), two Fig. 1560 Ys, add to the above list **$12.50.**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Automatic Triplex Power Spray Pump.

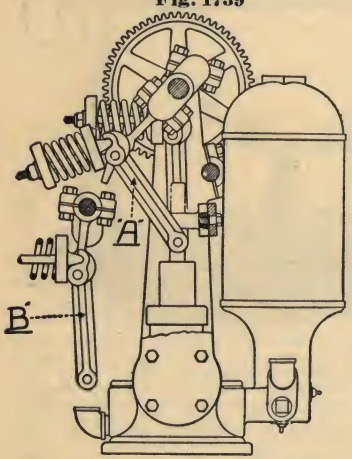
PATENTED.

With Automatic Pressure Governor.

TRIPLEX VERTICAL CYLINDERS. MACHINE CUT GEARS.

No Relief Valve. Automatic Control. Insures Safety. Secures Uniform Pressure and Eliminates Unnecessary Wear. Plunger Guide above Plunger Eliminates All Side Thrust and Reduces Wear. Belt Driven. Brass Fitted Throughout. Improved Oiling System. Built with a 2 Inch Cylinder. 3 Inch Stroke.

Fig. 1739



Capacity 2 x 3 Triplex Pump.

R. P. M.	60	70
Gals. per Min.	7	8

"A"—Position of Plunger Connecting Rod unlocked from crank shaft while not pumping.
"B"—Position of Plunger Connecting Rod locked into position while pumping.

Fig. 1795

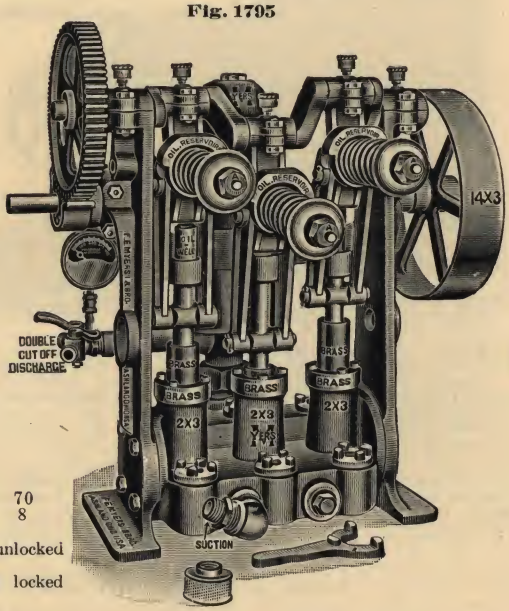


Fig. 1795 illustrates the Myers Triplex Power Spray Pump with patented Automatic Pressure Governor. This pump has all the desirable features found in any Spray Pump, viz: vertical cylinders, renewable brass valves and seats, large stuffing boxes fitted with brass glands and followers, large air chamber, machine cut gears, ample crankshaft and connecting rod bearings, etc. In addition it is fitted with a patented Automatic Pressure Governor which eliminates the trouble causing relief valve, and briefly, has the following advantages over the ordinary construction. Safety—Pressure relief is not dependent on the operation of a sluggish or defective relief valve. Uniform pressure regulation—The governing mechanism is not exposed to the clogging or corrosive action of the spray liquid which always effects the operations of the relief valve. Elimination of unnecessary wear—Plungers and valves are in action only when spray material is passing through the nozzles.

In operation the Automatic Pressure Governor has for its object the positive control of the pump pressure. This is accomplished by a simple arrangement of a combined lever and spring on each plunger connecting rod. [See A and B Fig. 1739] which, when the pressure reaches a predetermined limit, automatically stops the operation of the plungers without interrupting the driving power, and again permits them to resume operation when the pressure falls below this limit; also removes the entire load on engine causing it to run idle [saves gasoline]. All wearing parts thoroughly lubricated.

PRICE LIST, Represented by Fig. 1795.

No. 459, The Myers Automatic Triplex Power Spray Pump, 2 x 3 in. cylinders, fitted with patented automatic pressure governor, belt pulley 14 x 3 inches, pressure gauge, double cut-off discharge and strainer. Price.....(*Tender*)..**$125.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Automatic Triplex Power Spray Outfit.

PATENTED.

Fitted With Automatic Triplex Pump. **Fig. 1879**

Complete Except Engine.

Belt Driven. Simple, Strong and Efficient.

The Automatic Pressure Governor Insures Safety, Secures Uniform Pressure and Eliminates Unnecessary Wear. Relief Valves Not Required.

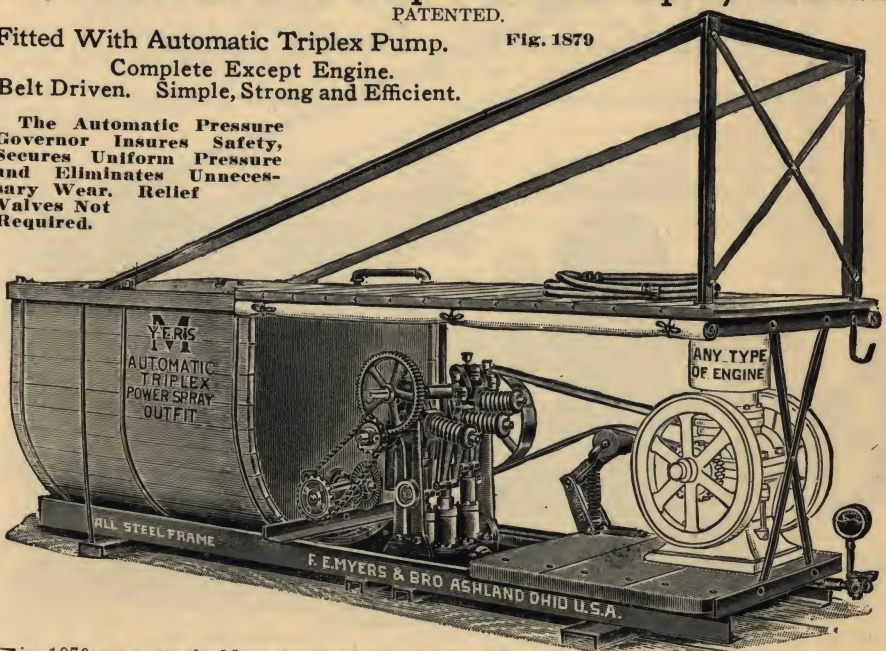


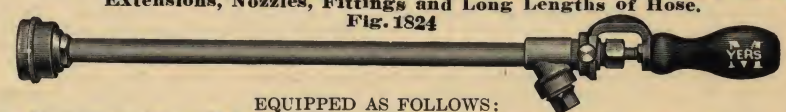
Fig. 1879 represents the Myers Automatic Triplex Power Spray Outfit, which is furnished complete including hose, spray gun, pump, tank, agitator, etc.; in fact, everything with the exception of the engine and wagon truck. The pump is supported on channel bars riveted to the frame. The engine is mounted on a 2 inch plank platform, the object being to supply a construction that the consumer who is familiar with the use of the ordinary gas engine, can set on the rig and dismount when wishing to use it for other purposes, without requiring the services of a machinist. The entire framework is made of channel and angle iron, making a very stiff frame with the least possible weight. The tank is made of selected cypress, and is fitted with rotary agitator with wooden blades. The agitator is driven by bevel gear and link chain, which makes a flexible joint and relieves the tank from all strain. The frame is fitted with two cross channel bars on the underside, which fit over the bolsters of the wagon, preventing forward or backward movement. The cab has heavy canvas curtains for protection of the engine and pump. The guard rails on top are to prevent the operator from falling off, and fold flat for transportation or storage.

The Myers Power Spray Gun.

Length Over All 26 Inches.

Utilizes the Entire Capacity of the Pump and Does Away With All Bamboo Extensions, Nozzles, Fittings and Long Lengths of Hose.

Fig. 1824



EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of ½" Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cut-off for discharge lines, pressure gauge, rotary agitator and belt tightener. Suction pipe taken from bottom of tank with cut-off.

PRICE LIST, Represented by Fig. 1879.

FOR 2 OR 2½ H. P. ENGINE.

No. 55, Myers Automatic Triplex Spray Outfit with 150 gallon tank, fitted with No. 459, 2" Automatic Triplex Spray Pump. Equipped as specified above. Price.....(*Theow*)..**$238.00**

No. 60, Myers Automatic Triplex Spray Outfit with 200 gallon tank, fitted with No. 459, 2" Automatic Triplex Spray Pump. Equipped as specified above. Price.....(*Thermo*).. **269.00**

Extra Lengths ½" Myers Spray Electric High Pressure Hose, per foot.....(*Theme*).. **.50**

The above spray rigs are all belt driven and carried regularly in stock. If gear driven pumps are required they must be built special and add to the above list $12.50 per outfit.

SPECIAL EQUIPMENT.

If the above rigs are wanted with old style equipment, including 50 feet of ⅜" best grade high pressure discharge hose and fittings complete for two leads, two 10 ft. bamboo pipe extensions complete with lever shut-off, four Fembro Nozzles (two straightaway and two 45 degree), two Fig. 1560 Ys, add to the above list **$12.50.**

The Myers Duplex Power Spray Pump.
Vertical Cylinder. Double Acting.

PATENTED.

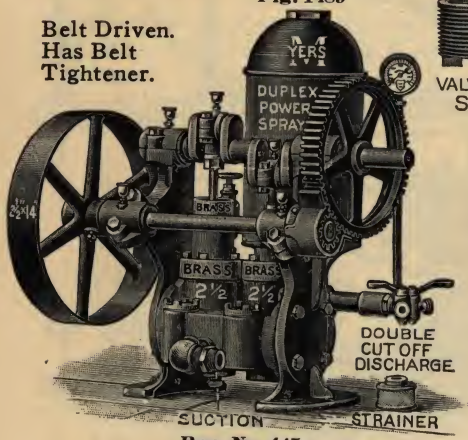
Fitted with Machine Cut Gear. **Back Geared 5 to 1.**

Capacity 2½x3 Duplex Pump.

R. P. M.	50	60
Gals. per Min.	5¼	6

Fig. 1489

Belt Driven. Has Belt Tightener.

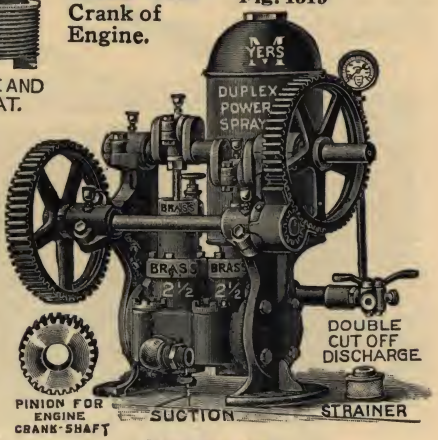


Rep. No. 445.

VALVE AND SEAT.

Gear Driven Direct from Crank of Engine.

Fig. 1519



Rep. No. 446.

Fig. 1489 illustrates the Myers Duplex Back Geared Vertical Cylinder Double Acting Spray Pump, brass fitted throughout. The cylinders are set vertically so as to allow the sediment to drop down in the lower part of the cylinder, which reduces the wear. The plungers are made of heavy seamless drawn brass tubing, which work through a gland liberally packed with hemp packing. The valve and seats are brass, poppet pattern, bevel, ground in. The air chamber has large capacity. The stroke is 3 inch.

Fig. 1519 represents this pump as furnished with gear wheel and pinion for engine crank shaft (instead of belt pulley); when wanted with gear and pinion specify R. P. M. and size of crank shaft of engine and size of key way.

The pump is furnished as specified in list.

ALL PUMPS FITTED WITH RELIEF VALVE, PRESSURE GAUGE, DOUBLE CUT-OFF DISCHARGE AND STRAINER.

PRICE LIST, Represented by Fig. 1489.

No. 445, The Myers 2½ inch Duplex Back Geared Vertical Cylinder Power Spray Pump, with belt pulley and belt tightener. Price.....(*Pop*).. **$94.00**

No. 445A, The Myers 2½ inch Duplex Back Geared Vertical Cylinder Power Spray Pump, fitted with 6 feet of wire bound suction hose, two 8 foot pipe extensions, and two Fig. 1317 power nozzles. No discharge hose. Price.....(*Porch*).. **100.00**

No. 435, The Myers 2 inch Duplex Back Geared Vertical Cylinder Power Spray Pump with belt pulley and belt tightener. Price.....(*Proped*).. **81.00**

No. 435A, The Myers 2 inch Duplex Back Geared Vertical Cylinder Power Spray Pump, fitted with 6 feet of wire bound suction hose, two 8 foot pipe extensions, and two Fig. 1317 power nozzles. No discharge hose. Price.....(*Proper*).. **88.00**

PRICE LIST, Represented by Fig. 1519.

Driven Direct from Engine Crankshaft.

No. 446, The Myers 2½ inch Duplex Back Geared Vertical Cylinder Power Spray Pump with gear wheel and pinion for engine. Price.....(*Pore*).. **$94.00**

No. 446A, The Myers 2½ inch Duplex Vertical Cylinder Power Spray Pump, fitted with 6 feet of wire bound suction hose, two 8 foot pipe extensions and two Fig. 1317 Power Nozzles. No discharge hose. Price.....(*Porer*).. **100.00**

No. 436, The Myers 2 inch Duplex Back Geared Vertical Cylinder Power Spray Pump with gear wheel and pinion for engine. Price.....(*Prore*).. **81.00**

No. 436A, The Myers 2 inch Duplex Vertical Cylinder Power Spray Pump, fitted with 6 feet of wire bound suction hose, two 8 foot pipe extensions and two Fig. 1317 power nozzles. No discharge hose. Price.....(*Prose*).. **88.00**

⅜ inch Myers Spray Electric High Pressure Discharge Hose. Per foot...(*Themis*).. **.45**

6 feet Wire Bound Suction Hose.....(*Pachak*).. **4.50**

½ inch Myers Spray Electric High Pressure Discharge Hose.....(*Theme*).. **.50**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Duplex Power Spray Outfit.

Fitted With Duplex Pump.
Belt Driven.
Complete Except Engine.

Fig. 1881

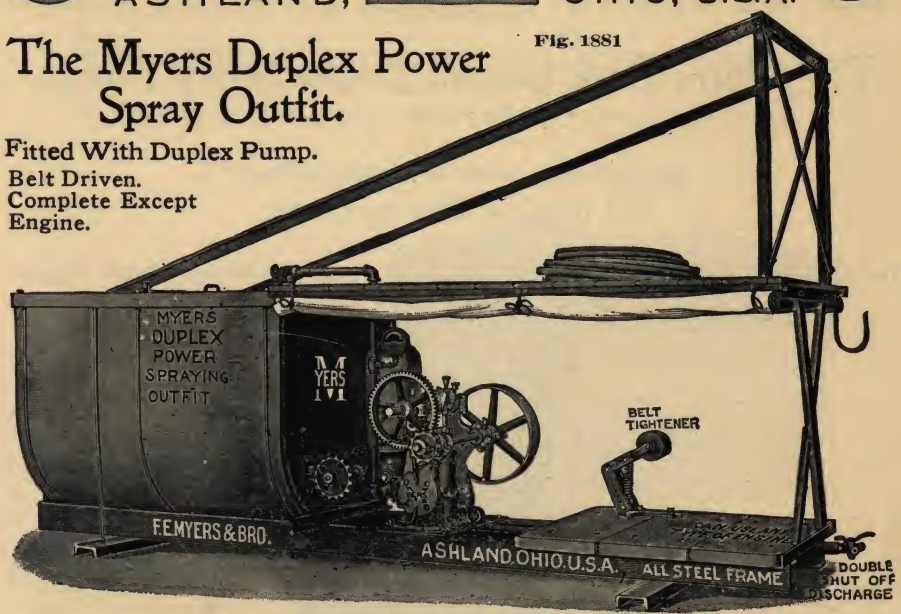


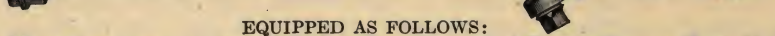
Fig. 1881 represents the Myers Duplex Power Spray Outfit with Duplex Pump. It is furnished complete including hose, spray gun, tank, agitator, relief valve, pressure gauge, etc.; in fact everything *with the exception of the engine.* The entire framework is made of channel and angle iron, making a very stiff frame with the least possible weight. It is fitted with a wrought steel bedplate on which the pump is mounted, and a plank platform for engine, making a solid foundation which will not vibrate when under the most extreme pressure. The tank is made of selected cypress, fitted with rotary agitator with wooden blades. The agitator is driven by a link chain, which makes a flexible joint, relieving the tank from all strain. The overflow pipe extends upward from the pump and enters the tank from the top, thus preventing all twisting strains, which cause leaks. Has two cross channel bars underneath the frame to fit the wagon bolsters, preventing end or side movement. The cab has heavy canvas curtains for protection of engine and pump. The guard rails on top are to prevent operator from falling off. Guard rails fold flat for transportation or storage.

The Myers Power Spray Gun.

Length Over All 26 Inches.

Utilizes the Entire Capacity of the Pump and Does Away With All Bamboo Extensions, Nozzles, Fittings and Extra Lengths of Hose.

Fig. 1824



EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of ½" Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cut-off for discharge lines, pressure gauge, rotary agitator and belt tightener. Suction pipe taken from bottom of tank with cut-off.

PRICE LIST, Represented by Fig. 1881.

FOR 1½ TO 2 H. P. ENGINE.

No. 21, Myers Duplex Power Spray Outfit with 100 gallon tank, fitted with No. 435, 2 inch Duplex Spray Pump. Equipped as specified above. Price.....(*Thetic*).. **$181.00**

No. 26, Myers Duplex Power Spray Outfit with 150 gallon tank, fitted with No. 435, 2 inch Duplex Spray Pump. Equipped as specified above. Price.....(*Thetis*).. **194.00**

FOR 2½ H. P. ENGINE.

No. 31, Myers Duplex Power Spray Outfit with 150 gallon tank, fitted with No. 445, 2½ inch Duplex Spray Pump. Equipped as specified above. Price.....(*Thew*).. **206.00**

No. 36, Myers Duplex Power Spray Outfit with 200 gallon tank, fitted with No. 445, 2½ inch Duplex Spray Pump. Equipped as specified above. Price.....(*Thewed*).. **238.00**

Extra Lengths ½" Myers Spray Electric High Pressure Hose.....(*Theme*).. **.50**

The above spray rigs are all belt driven and carried regularly in stock. If gear driven pumps are required they must be built special and add to the above list $12.50 per outfit.

SPECIAL EQUIPMENT.

If the above rigs are wanted with old style equipment, including 50 feet of ⅜" best grade high pressure discharge hose and fittings complete for two leads, two 10 ft. bamboo pipe extensions complete with lever shut-off, four Fembro Nozzles (two straightaway and two 45 degree), two Fig. 1560 Ys, add to the above lists **$12.50.**

The Myers Back Geared Power Spray Pump.

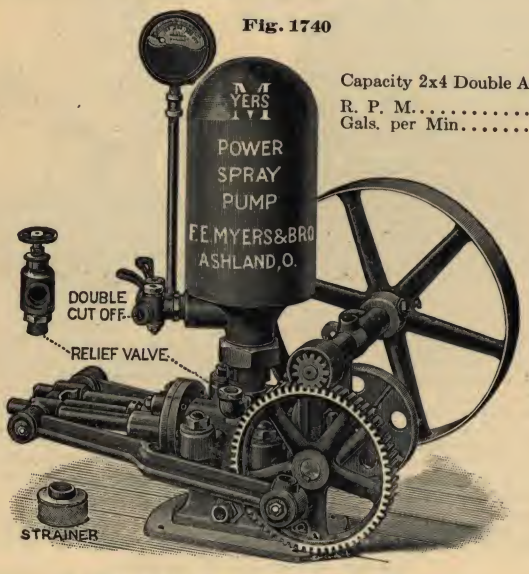
PATENTED.

Belt Driven. With Machine Cut Gear.

FOR HOT OR COLD MIXTURE.

Hemp Packed Plunger. Concave Brass Valve Seats and Ground Brass Poppet Valves. Back Geared 5 to 1.

Fig. 1740



Capacity 2x4 Double Acting Pump.

R. P. M.	50	60
Gals. per Min.	5¼	6

To be Used with 1½ H. P. Engine.

Fig. 1740 illustrates our Back Geared Power Spray Pump for belt power. The cylinder is a removable brass shell, 2 x 4 inch stroke.

The pump is equipped with gears of ample strength, and is back geared 5 to 1.

The valves are of poppet pattern, made of hard brass with concave ground seats.

The piston rod is 9/16 solid brass, outside packed.

The plunger is of the telescope pattern, packed with hemp packing suitable for handling hot or cold mixtures.

The suction may be taken from either side.

The discharge has double shut off cock.

Is fitted with retaining check valve in pump at base of air chamber.

The relief valve is placed below the retaining check valve so that the discharge from the relief valve does not lower the pressure in the air chamber, a valuable point.

PRICE LIST, Represented by Fig. 1740.

No. 580,	Back Geared Power Spray Pump, 2 x 4 inch cylinder with strainer, pressure gauge and relief valve. Pulley 14 x 2½ inches. Capacity 6½ gallons per minute, at 60 revolutions. Price ..... (*Tacker*)..	**$69.00**
	⅜ inch Myers Spray Electric High Pressure Discharge Hose. Price per foot..(*Themis*)..	.45
	½ inch Myers Spray Electric High Pressure Discharge Hose. Price per foot..(*Theme*)..	.50
	Wire Bound Suction Hose. Price per foot.....	.75

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Special Power Spray Outfit.

Fitted With 2 Inch Horizontal Double Acting Force Pump.

Complete Except Engine. Belt Driven.

Fig. 1882

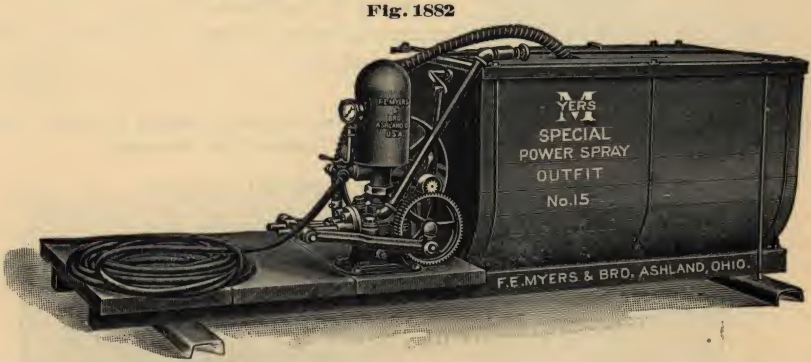


Fig. 1882 illustrates the Myers Special Power Spray Outfit as furnished complete except the engine.

TANK, cypress, 100 gallons, fitted with semi-rotary agitator swung from top of tank and connected direct to face-plate on the pump.

FRAME, 3 inch channel steel.

DECK, (on which engine and pump are mounted) plank 30 x 47 inches.

PUMP, No. 580, double acting, back geared 5 to 1, capacity, 5.4 gallons per minute at 50 revolutions.

CYLINDER, 2 x 4 inch, removable brass shell.

PLUNGER, brass, telescope pattern, hemp packed, handles hot or cold mixture.

VALVES and SEATS, brass beveled and ground in.

PISTON, $\frac{5}{8}$ inch solid brass, with heavy brass stuffing nut and brass follower.

GEAR and PINION, 1¼ inch face, machine cut.

PULLEY, 14 x 2½ inch, crown face.

WRIST PIN, 1¼ inch.

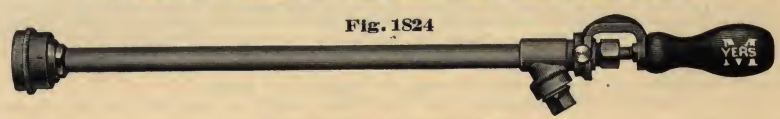
BOXES, bored, of extra length.

The Myers Power Spray Gun.

Length Over All 26 Inches.

Utilizes the Entire Capacity of the Pump and Does Away With All Bamboo Extensions, Nozzles, Fittings and Long Lengths of Hose.

Fig. 1824



EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of ½" Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cutoff for discharge lines, pressure gauge, agitator, belt tightener, relief valve, strainer and suction hose.

PRICE LIST, Represented by Fig. 1882.

No. 15, Myers Special Spray Outfit with 100 Gallon Tank and No. 580 Spray Pump, belt driven, equipped as above. Price.....(*Thick*).. **$123.00**

Extra Lengths ½" Myers Spray Electric High Pressure Hose. Per ft.....(*Theme*).. **.50**

SPECIAL EQUIPMENT.

If the above rigs are wanted with old style equipment, including 50 feet of ⅜" best grade high pressure discharge hose and fittings complete for two leads, two 8 ft. Iron pipe extensions complete with lever shut-off, four Fembro Nozzles (two straightaway and two 45 degree), two Fig. 1560 Y's, add to the above list **$6.25.**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Complete Automatic Power Spray Outfit.

With Engine and Short-Turn Truck.
2 Inch Triplex Automatic Spray Pump.
Chain Driven.

The Automatic Pressure Governor Insures Safety, Secures Uniform Pressure and Eliminates Unnecessary Wear. Relief Valves Not Required.

Fig. 1953

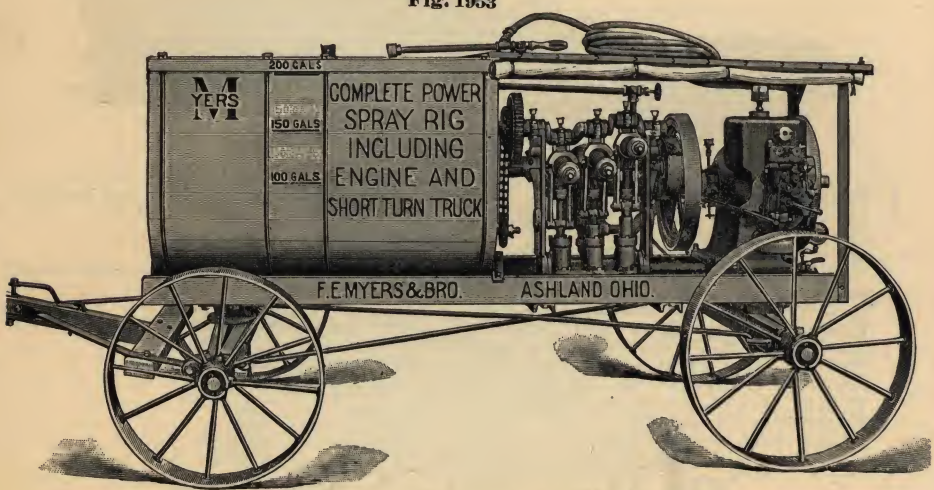


Fig. 1953 illustrates the Myers Complete Spray Rig as furnished ready for the field. Has 200 gallon Cypress Tank, clearly marked so as to enable the user to fill it to any desired point, viz., 100 gallons, 150 gallons or 200 gallons. This does away with carrying three different sized Tanks and different sized Rigs. The Pump is our regular No. 459, 2 inch Triplex with Automatic Pressure Governor which insures safety and secures uniform pressure eliminating unnecessary wear. The Engine is the International Harvester Company Type M, 3 H. P. Kerosene, direct connected by means of Chain Drive. The advantage we can offer our customers in supplying the International Engine is that there is no territory in the United States in which the International people do not have Agencies and men who take pleasure in looking after their Engines. This is an advantage that no other Spray Rig Manufacturer can offer.

The entire length of the Rig is 8 feet 6 inches, the height is 57 inches.

The Pump is equipped with connections for Tank Filling, which is complete with the exception of the Suction Hose.

The Truck is extremely strong and substantially made, with cross reach which permits the entire Rig to be turned in a complete circle 16½ feet in diameter. The Wheels are 30 inches in height with 4½ inch Tires.

EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of ½ inch Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cut-off for discharge lines, Pressure Gauge, Rotary Agitator and Filler Pipe Connections with Shut-off ready to attach 1¼ inch Suction Hose for filling tank.

PRICE LIST, Represented by Fig. 1953.

No. 65, Myers Complete Automatic Power Spray Outfit with Engine, Short-turn Truck and No. 459 2 inch Triplex Pump, Chain driven, equipped as above.

Price .....(*Timed*)..**$480.00**

Can be supplied with Guard Rails like Figs. 1879, 1880 and 1881, add to list.....**$5.00**

The Myers Automatic and Duplex Power Spray Rigs.

Fig. 1864.

Fig. 1864 illustrates the Suction Hose as attached to bottom of tank. Note: The strainer can be raised to top of tank for cleaning by means of the chain.

Fig. 1783.

Fig. 1783 illustrates the Myers Automatic and Duplex Power Spray Rigs with curtains drawn for protection and guard rails folded for transportation or storage, enabling the user to store the rig in the smallest possible space.

Fig. 1784.

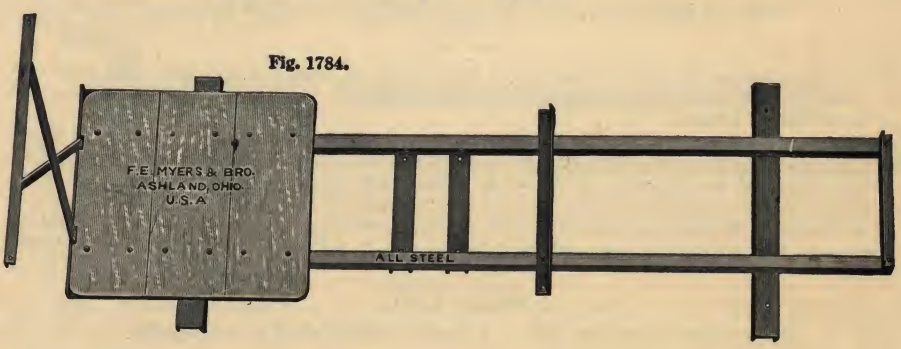


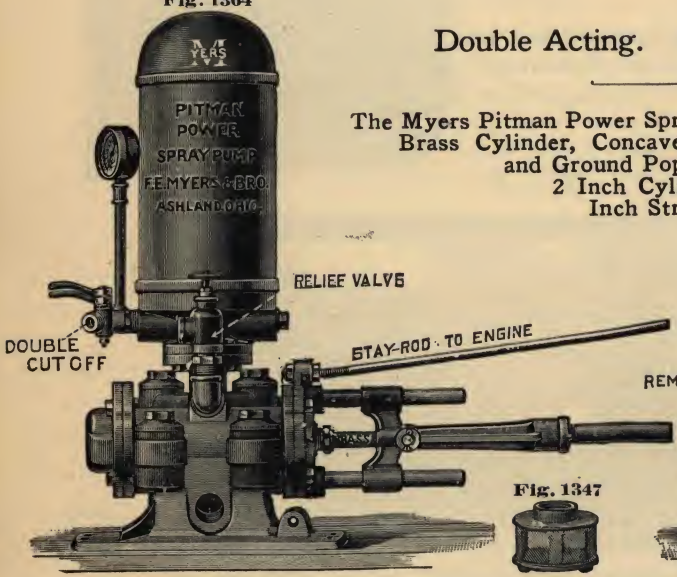
Fig. 1784 illustrates the steel framework of the Myers Automatic and Duplex Power Spray Rigs, showing the rigid construction. It is as near indestructible as can be made.

Note: The wide channel bars resting on the bolsters are bolted underneath the frame. The smaller angle bars at the right-hand end locate the tank and prevent it from moving endwise. The main sills also hold the tank, preventing it from moving sidewise. The two channel bars shown under and near the center of the frame carry the pump. The planks at the left-hand end of the frame form the platform on which the engine is located, permitting the use of any make of engine. The cross braces and angle iron at the extreme left carry the deck over the engine cab, which is supported by angle irons, extending from these cross braces the entire length of the rig and fastening securely to the top of the tank.

The Myers Pitman Power Spray Pump.

PATENTED.

Fig. 1364



Rep. No. 313.

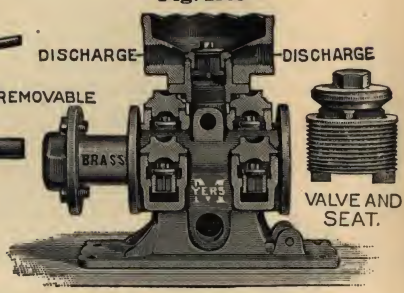
Double Acting. 5 Inch Stroke.

The Myers Pitman Power Spray Pump with Removable Brass Cylinder, Concave Brass Valve Seats and Ground Poppet Valves, 2 Inch Cylinder, 5 Inch Stroke.

Fig. 1347

Strainer furnished on all Spray Pumps.

Fig. 1365



View showing Removable Cylinder and Elevation of Valves of Fig. 1364.

Fig. 1364 represents the Myers Pitman Power Spray Pump, as made in 2 inch size. It is fitted with concave brass valve seats, ground poppet valves, removable seamless drawn brass cylinder, and hemp packed plunger.

The valves are located on the side of the pump, each one under an individual cap, and can be removed without disturbing any other parts of the pump.

It is fitted with a check valve between the air chamber and pump, which retains the pressure of the air chamber on the nozzles, and relieves the valves of the pump from all strain.

Is fitted with relief valve placed between the valves of the pump and the retaining valve in the air chamber, so that its operation does not effect the pressure in the air chamber or the spray from the nozzles.

PRICE LIST,

Represented by Fig. 1364 — 2 Inch Cylinder for 1 H. P. Engine.

No. 313, Myers Junior Pitman Power Spray Pump, with strainer, pressure gauge and safety relief valve. Price .....(*Packet*).. **$34.00**

No. 313A, Myers Junior Pitman Power Spray Pump, with strainer, pressure gauge and safety relief valve, fitted complete with 6 feet of wire bound suction hose, two 8 foot pipe extensions and two Fig. 1317 power nozzles (no discharge hose). Price.....(*Paco*).. **41.00**

No. 313B, Pump complete with strainer, pressure gauge and safety relief valve, fitted with 6 feet of suction hose, one 25 foot lead of ⅜ inch best grade high pressure discharge hose, one 8 foot pipe extension, one Fig. 1317 power nozzle. Price.....(*Pod*).. **48.00**

No 313C, Pump complete with strainer, pressure gauge and safety relief valve, fitted with 6 feet of suction hose, two 25 foot leads of ⅜ inch best grade high pressure discharge hose, two 8 foot pipe extensions, two Fig. 1317 power nozzles. Price.....(*Podge*).. **57.00**

⅜ inch Myers Spray Electric High Pressure Discharge Hose. Price per foot..(*Themis*).. **.45**

½ inch Myers Spray Electric High Pressure Discharge Hose. Price per foot..(*Theme*).. **.50**

6 feet of wire bound suction hose, complete.....(*Pachak*).. **4.50**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Rotary Agitator.

As Made for Spray Tanks. For Use with Either Gear, Belt or Chain Drive.

Fig. 1598

Fig. 1558

Wood Blade for Rotary Agitator. Will not rust. Is easily replaced.

In Ordering Always Give Length of Tank.

This Rotary Agitator is made similar to propellors used to drive motor boats, consisting of a steel shaft running lengthwise of the tank, fitted with two rotary blades, which drive the mixture in opposite directions, thus causing a thorough agitation of the material.

Fig. 1598 illustrates the Agitator as made to be driven by sprocket chain direct from the engine.

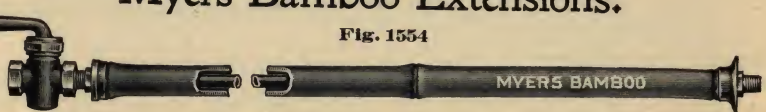
Fig 1558 illustrates the Agitator as made to be driven by means of a belt.

PRICE LIST, Represented by Figs. 1598 and 1558.

Fig. 1598, Rotary Agitator, complete as illustrated by Fig. 1598. Price, each.....(*Prizer*)..**$15.00**
Fig. 1558, Rotary Agitator, complete as illustrated by Fig. 1558. Price, each.....(*Pro*).. **15.00**

Myers Bamboo Extensions.

Fig. 1554



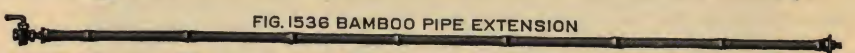


FIG. 1536 BAMBOO PIPE EXTENSION

The Bamboo Extension, as illustrated by Fig. 1536, is made of selected bamboo, 8 ft., 10 ft. and 12 ft. in length, through which is placed a special brass tube of $\frac{5}{8}$ inch inside diameter; the shut-off lever and male end are attached to the brass tube by heavy threads (no solder) and has *wide shield at top* to prevent solution running down the pole.

Fig. 1554 illustrates an enlarged view and sectional parts of the bamboo extension.

PRICE LIST.

Fig. 1536, 8 foot bamboo extension, with lever shut-off cock. Price, each .....(*Flasher*)..**$4.50**
Fig. 1536, 10 foot bamboo extension, with lever shut-off cock. Price, each .....(*Plack*).. **4.75**
Fig. 1536, 12 foot bamboo extension, with lever shut-off cock. Price, each .....(*Plaga*).. **5.00**

Myers Pipe Extensions.

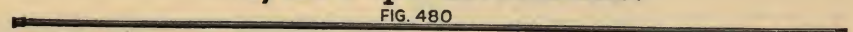


FIG. 480

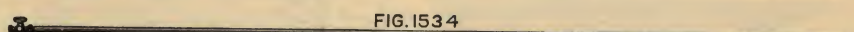


FIG. 1534

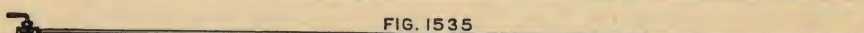


FIG. 1535

Figs. 480, 1534 and 1535 illustrate our regular iron pipe extensions made of ¼ inch steel pipe threaded at both ends and fitted as described in lists. These extensions are 8 feet in length.

PRICE LIST.

Fig. 480, 8 foot pipe extension, with coupling. Price, each.....(*Flag*)..**$ .65**
Fig. 1534, 8 foot pipe extension, with stop cock. Price, each .....(*Flash*).. **1.35**
Fig. 1535, 8 foot pipe extension, with lever shut off cock. Price, each.....(*Panda*).. **1.50**

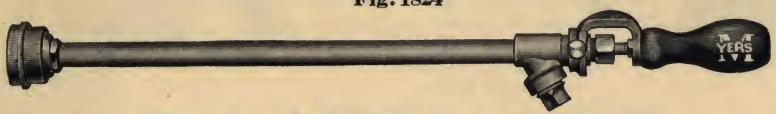
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Power Spray Gun.

Length Over All, 26 Inches.

Utilizes the Entire Capacity of any Power Spray Pump and Does Away With All Bamboo Extensions, Nozzles and Fittings.
All Working Parts on the Outside. Not Subject to Corrosion.

Fig. 1824



Fitted for ¾" Hose Coupling and ¼" Pipe.

Fig. 1824 illustrates the Myers Power Spray Gun designed for use with any Power Spray Pump. Its capacity is only limited by the quantity of material discharged by the pump.

The idea is to enable one man to do the spraying, thus saving the expense of two extra men as is the case with the ordinary spray rig using two lines of hose with bamboo extensions.

By a one-third turn of the handle the spray can be adjusted from a long distance spray reaching the top of the tree to an extremely broad spray sufficient to cover the entire tree or shut off entirely.

It is furnished with four separate spray discs designed to deliver the entire capacity of the pump, either 4, 6, 8 or 10 gallons per minute.

One-third turn of the handle adjusts the spray from a wide open nozzle to a complete shut-off of the mixture.

Fig. 1825

Fig. 1825 illustrates the Spray Gun discharging a long distance spray, by means of which the top of the highest fruit tree can be reached, a slight turn of the handle widens the spray as shown in Fig. 1826.

Fig. 1826

Fig. 1826 illustrates the Spray Gun discharging a wide spray which practically covers the tree at one shot, this broad spray is produced from the long distance spray shown above by a slight turn of the handle, a further turn shuts off the spray entirely when you are ready to move to the next tree.

PRICE LIST, Represented by Fig. 1824.

Fig. 1824, Myers Power Spray Gun. Price.....(*Tepid*)..**$9.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Power Spray Gun

In Operation.

Only One Man Required.

The above scenes illustrate the Myers Spray Gun in action. The scene to the left shows the long distance spray which extends over the top of a very high tree while the adjoining scene pictures the gun delivering a broad spray covering the entire side of an average tree, from which it can be shut off entirely.

NOTE: *One Man* is all that is required to operate a Spray Rig when equipped with a Spray Gun.

CAPACITY OF SPRAY GUN.

Long Distance (Coarse Spray).

Pressure, lbs...	150	200	250	300
Gals. per minute	4½	5	5½	5¾

Fine Mist.

Pressure, lbs...	150	200	250	300
Gals. per minute	3½	4	4¼	4½

Horizontal Test. Gun Held 3 ft. Above Ground.

Pressure, lbs..	150	200	250	300
Feet	32	33	36	37

Pressure, lbs...	150	200	250	300
Feet	15	16	15	14

Vertical Test with Handle on Ground (Coarse Spray).

Pressure, lbs.	150	200	250	300
Height, feet	22	24	27	28

The above tests were made by a prominent Agricultural Experiment Station. In reporting the result of the test they congratulated us on the Myers Gun, its construction, ease of handling and performance, the general average of which was the best on all tests.

Myers Spray Nozzles.

Fig. 1317

Power Nozzle with Disgorger or Self Cleaner..(*Paly*)..**$1.50**

Fig. 1379
STEEL DISC

Sectional View of Fig. 1317 Nozzle

Fig. 1470

Myers-Way Nozzle (*Pomp*)..**$1.25**

Fig. 1878

Special Spray Nozzle (*Thief*)..**$1.35**

Figs. 1317 and 1379 represent the Myers Power Spray Nozzle with Self Cleaner or Disgorger. This nozzle operates by the liquid passing up through the water-way and then through the spiral groove around the center part of the nozzle, thus forming a whirling motion, which in connection with the passage through the steel plate forms the spray.

When the nozzle becomes clogged, by pressing the nozzle against a limb on the tree the small disgorging pin is thrust through the spray opening in the steel disc, which cleans it, after which the natural pressure from the pump forces the nozzle open ready for spraying again.

One of the special features of this nozzle is that it is fitted with a steel disc, forming the spray opening. This disc when worn can be easily replaced at a very small cost.

CAPACITY equal to three ordinary nozzles.

This nozzle is especially adapted for use in connection with power spray pumps.

The Myers-Way Nozzle, Fig. 1470, is a large capacity nozzle so constructed as to throw a broad, fan-like spray at an angle of 45 degrees, enabling the user to reach the innermost part of the tree. It operates by the liquid passing through a hole in the center of the nozzle body striking against the spray disc, the force of which deflects it to the angle of 45 degrees, forming a fan-like misty spray similar to the Bordeaux Nozzle.

Fig. 1878 Myers Special Spray Nozzle for use on any Hand Spray Pump or Compressed Air Sprayer. Throws broad fine spray also long distance spray. Operated by closing and opening the hand.

To clean the nozzle turn the enlarged opening over the discharge port, when it will throw a solid stream, clearing itself immediately. This nozzle is recommended for general use on both hand and power pumps.

Fig. 1290

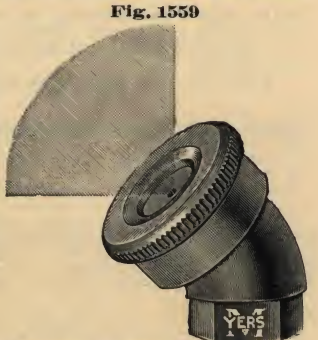
Fembro Nozzle (*Paled*)..**$0.90**

Fig. 1546

Shows parts of Fig. 1290 in detail.

Fig. 1290, Fembro Nozzle, is the same size and capacity as Fig. 1317, only made without self cleaning device. This nozzle is fitted with a removable steel disc in the cap. Fig. 1546 shows the base, rubber washer, steel disc and cap separated.

Fig. 1559



Fembro 45° Nozzle (*Prince*)..**$1.00**

The Nozzles are swivel and can be set at any angle.

Myers Spray Nozzles are put up in individual boxes, making a convenient package for placing on shelf.

All nozzles fitted with standard ¼ inch pipe thread.

Myers Spray Nozzles.

Continued.

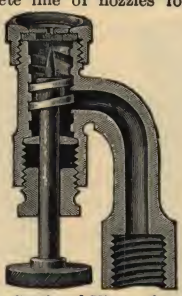
Fig. 1563

Regular Vermorel Nozzle.
(*Preach*)..**$1.00**

All fruit growers rightly contend that the nozzle is the most important part of the spraying outfit. It must be arranged to throw a mist and not drops. It is also a fact that more harm is done by using *Sprinkling Nozzles* than if no spraying was done at all. By putting on too much material you damage the foliage. The best results are obtained by covering the entire *surface* and with *just as little in one place as possible.*

We manufacture a complete line of nozzles for the smallest hand pump to the largest power outfit.

Shows Open Cap and Removable Spray Disc, also Packing Ring.



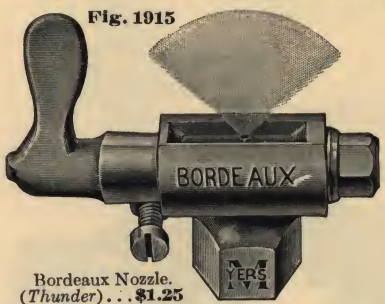
Sectional View of **Fig. 1564**

Fig. 1564

Graduating Vermorel Nozzle.
(*Precel*)...**$1.00**

All Vermorel Nozzles fitted with two renewable plates giving fine and coarse spray.

Fig. 1915



Bordeaux Nozzle.
(*Thunder*)...**$1.25**

Fig. 550

Cyclone.
Side Outlet.
(*Gap*)..**$0.50**

Fig. 1291

Long Distance.
(*Palely*)..**$1.15**

Fig. 1564 is constructed on the general plan of the regular Vermorel Nozzle, with the improvement that the spray can be graduated from a fine mist up to a solid spray, carrying the stream a much greater distance. This is accomplished by adjusting the screw plunger by means of thumb nut. The disgorger is operated by the screw plunger instead of spring as in Fig. 1563.

The Bordeaux Nozzle will throw a fine fan-shaped spray and will readily free itself, should it become clogged, by turning the cock handle. It will throw a solid stream or it may be shut off altogether, as desired. Has double face; gives greater wear. All nozzles fitted with standard ¼ in. pipe thread.

Fig. 642

Imperial.
(*Glass*)..**$0.50**

Shows Open Cap and Removable Spray Disc, also Packing Ring.

Fig. 548

Sprinkling.
(*Gag*)..**$0.50**

Fig. 1342

All Myers Spray Nozzles are put up in individual boxes as shown in Fig. 1342, making a convenient package for placing on shelf.

Myers Spray Pump Fittings.

Male End Extra Length for 2 Bands.

Fig. 1325

(*Pam*)..**$0.50**
⅜ or ½ inch hose,
¼ inch pipe.

Male End Regular.

Fig. 549

(*Gage*)..**$0.40**
⅜ or ½ inch hose,
¼ inch pipe.

Female End for Hose.

Fig. 1091

(*Gab*)..**$0.40**
⅜ or ½ inch hose,
¼ inch pipe.

2-Piece Hose Reducer.

Fig. 1206

(*Glosser*)..**$0.50**
¾ inch hose,
¼ inch pipe.

Brass Cap.

Fig. 1457

(*Pokey*)..**$0.25**
¾ inch hose.

Hose Reducer.

Fig. 772

(*Gloss*)..**$0.30**
¾ inch hose,
¼ inch pipe.

Brass Y Connections.

Fig. 1279

(*Palla*)..**$0.75**
¼ inch pipe thread.

Y for Two Nozzles.

Fig. 1560

(*Pray*)..**$0.75**
¼ inch pipe thread.

Fig. 541

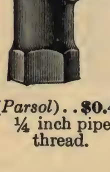
(*Gown*)..**$1.00**
¾ inch pipe inlet.
¾ or ½ inch hose.

Fig. 1280

(*Pallah*)..**$1.25**
1 inch pipe inlet,
½ or ¾ inch hose outlet.
Outlet tapped ⅜ inch gas pipe plug.

45° Bend.

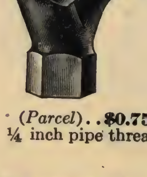
Fig. 1380



(*Parsol*)..**$0.45**
¼ inch pipe thread.

45° Bend, Double.

Fig. 1381



(*Parcel*)..**$0.75**
¼ inch pipe thread.

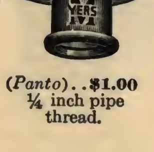
Air Cock.

Fig. 1382

(*Parch*)..**$0.75**
⅛ inch pipe thread.

Flushing Nozzle.

Fig. 1359



(*Panto*)..**$1.00**
¼ inch pipe thread.

All Nozzles Fitted for ¼ Inch Pipe Thread.

Myers Spray Pump Fittings.

Continued.

Fig. 540

Brass Hose Nipples, Fig. 540.

Size, inches.....	¾	1
Price, each.....	$0.40	$0.50
Extra Length tapped for agitator..Price each.	$0.50	$0.65

Fig. 1278

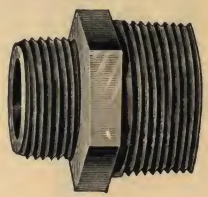


Fig. 1278, Brass Reducer Nipple.

1¼ in. x 1 in., Hose or Pipe. Price each .....(*Pallas*)..**$0.75**
2 in. x 1¼ in., each.(*Papish*).. **1.50**

Lever Shut-off Cock. No Dripping. Fig. 1283.

Fig. 1283, Lever Shut-off Cock, all brass. Made for use with Pipe Extension. Requires quarter turn only to shut off complete. This quick action makes it a practical device for the purpose. Tapped ¼ inch pipe size. Price, each.....(*Pallet*)..**$1.00**

Fig. 1281

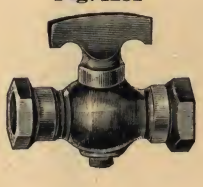


Fig. 1283

Fig. 1281, Brass Shut-off Cock.

¼ inch Pipe Connection. Price, each .....(*Pallid*)..**$0.75**

Brass Hose Couplings, Fig. 1284.

Fig. 1284 is a special Brass Hose Coupling, made with double length nipples, with heavy ribs, of sufficient length to use two hose bands if necessary. Especially adapted for use with Power Spray Pumps. Made in ⅜, ½ and ¾ inch sizes. Price, each..**$0.80**

Fig. 224

Brass Hose Couplings, Fig. 224.

Size, inches	½	¾
Complete, price each..	$0.35	$0.40
Half coupling, female, price, each	$0.20	$0.25

Fig. 1284

Sure Grip Hose Clamps, Fig. 1936.

Fig. 1936 Sure Grip Hose Clamp for Power Spray Hose. The Hose clamp grips the Male End or Hose Coupling. Can't slip off.

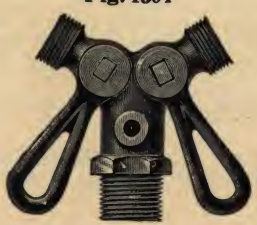
	⅜"	½"
Price, each	.35	.35

Fig. 1936

Galvanized Steel Hose Clamps, Fig. 885.

Size, inches.....	½	¾
Price, each	$0.06	$0.06

Fig. 1304



Myers Double Cut-off, Fig. 1304.

It is much simpler than two single cut-off valves, and is fitted for ¾ or ½ inch hose couplings on the discharge ends, and 1 inch pipe thread on the inlet. No cap is needed, as either line of hose may be shut off without effecting the other, or moth may be turned on, or both shut off. No spray pump should be used without one. Price, each .....(*Pallor*)..**$3.00**

Fig. 885

Fig. 1721

Myers Pressure Gauge.

Fig. 1721 illustrates the Myers Pressure Gauge which is built especially for use on Myers Spray Pumps. It is constructed in two sizes rated to register up to 250 lbs. for hand pumps and 400 lbs. for power pumps. State which size is wanted when ordering.

Price .....(*Tarry*)..**$3.75**

Fig. 1926

Relief Valve.

FOR POWER SPRAY AND OTHER POWER PUMPS.
PRICE LIST, Fig. 1926.

Size, Inches	½	¾
Finished Brass, each.....	$4.50	4.50

Myers Strainers.

Fig. 1347

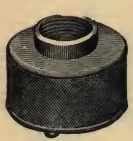


Fig. 1432

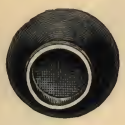


Fig. 1347 Myers Strainer, tapped 1 inch pipe, for power spray pumps. Price.....**$1.50**

Fig. 1432 Myers Strainer for Barrel Spray Pumps. Price..... **1.00**

Fig. 1916 Strainer for Spray Tank..... **1.50**

Fig. 1916

Whitewashing and Painting.

Any Myers Barrel, Horizontal or Bucket Spray Pump is adapted to apply whitewash or fireproof paint, provided it is fitted with a Bordeaux nozzle.

One man with a good spray pump can cover more surface in a given time than five men with brushes, and do much better work, especially on rough surfaces, as the force with which the material is applied causes it to penetrate the small crevices or openings, thus making a complete and perfect job.

Great care must be taken in mixing the material, as lime settles very quickly, as also does paint. In whitewashing, the lime must be thoroughly slaked and carefully strained into the vessel from which it is pumped. In addition to this, it must be thoroughly stirred and very frequently. This cannot well be done with the agitator attached to the pump. The better plan is to use a long broad paddle and stir with the motion from the bottom to the top of the vessel. Again, it is absolutely necessary, when you cease spraying for a short time, to clean the pump thoroughly on the inside with water, so as to remove all lime and prevent clogging.

Kill the Weeds On Your Farm.

For many years the use of chemicals applied in the form of watery solutions in fine spray has been used in Europe for the eradication of noxious farm weeds. After experimenting for six years in this country with a variety of spraying machines, the American Steel & Wire Company, Chicago, Ill., have finally developed and made practical this process and by the use of sulphate of iron the farmer has an inexpensive and sure means of controlling a number of dangerous farm weeds. The method of application is very simple. It calls for a powerful well made spraying machine capable of producing a mist at 100 lbs. pressure. 100 pounds sulphate of iron dissolved in 50 gallons of water is sufficient to kill the weeds in one acre of grain. When the grain is two to four inches high is the proper time to spray for best results. By controlling weeds with this spray, the yields of grain are frequently increased 50 per cent. USE MYERS SPRAY PUMPS.

American Steel & Wire Company will be pleased to furnish you reading matter on this interesting method of destroying your weeds.

FOR SPRAYING FORMULAS, SPRAY CALENDAR AND COMPLETE SPRAYING INFORMATION, SEE REGULAR SPRAY PUMP CATALOGUE.

MYERS HAY UNLOADING TOOLS

Unloaders for using forks.

Sling Unloaders for slings or two forks.

Double Harpoon Forks for ordinary and general use.

Grapple Forks for short length hay, straw, etc.

Slings for handling hay, bundled grain, fodder, etc.

Pulleys for all purposes.

Myers Double Steel Track is recommended as being the very best.

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

MYERS HAY UNLOADING TOOLS

PATENT DOUBLE LOCK HAY UNLOADERS, PATENT STEEL TRACKS, SLINGS, FORKS, PULLEYS, ETC.

A test of thirty years has demonstrated the superiority of the Myers Hay and Grain Tools. They are now universally known and acknowledged to be the best made, most practical, simplest in construction, and that they meet all the requirements.

A comparison of our carriers with others will show many points of superiority in our favor. These special features and advantages are covered by letters patent owned and controlled by us.

It is of the greatest importance that implements of this class, which are subjected to severe usage during the hurry of the haying season, should be thoroughly well built and constructed of first class material throughout. The best malleable iron is used in the construction of our goods.

Personal attention, long experience, a knowledge of the requirements, and the adoption of the latest improved methods and machinery, have enabled us to produce a line unequaled.

The advantages of a hay carrier as a means of storing away hay or grain in a barn or shed are so well and generally known that we do not deem it necessary to go into the details regarding same, but simply *state the fact* that they save the time and expense of from one to three men for each day of harvest, the cost of which will pay for the outfit in from two to three years, to say nothing of the advantages of storing away the hay quickly, thus oftentimes saving tons of hay and grain from being spoiled, which naturally lessens the quality and value. *Three tons of hay thus saved will pay for the entire outfit.*

The above facts should convince any practical dealer and farmer that it is the *best of economy to have a carrier outfit,* hence the question to decide is, *What carrier to buy?* In reply to which, we suggest *the Myers.*

INTEGRITY IN THE USE OF PATENTS AND INFRINGEMENTS

THERE seems to be a disposition, on the part of unscrupulous manufacturers and jobbers, to disregard our patents and assume that invention and protection are not serious matters, and that they can take up, manufacture and sell what others have invented, secured and introduced at a heavy expense, without liability or discredit to themselves. We respectfully refer such to our numerous patents and the decisions, also to pending suits brought by us, and the fact that we shall protect ourselves and dealers on our combined extended hay tool and pump claims to final decrees.

THE MYERS PATENT DOUBLE METAL RAIL TRACK

Reasons Why We Have Sold Over 29,591,000 Feet of This Track:

1. Because it is the strongest track made.
2. Higher in carbon and stiffer.
3. Double rail placed side by side.
4. No riveting; is a complete system.
5. No fitting or matching.
6. Joints are made alternately.
7. Hanging hooks pass between the rails.
8. Can slide hanging hooks to suit the rafters.
9. Rails are interchangeable.
10. Held together entirely by clamps.
11. Hanging hooks also form clamps.
12. Joint clamps have three bolts.
13. Strongest at spliced joints.
14. Clamps or rails fit either side.
15. No splicing or riveting blocks.
16. Stop or knocker can be placed anywhere.
17. Can have two or more knockers on the same track.
18. No holes or notches in track.
19. Can use shortest hanging hooks.
20. Ordinary laborer can put it together.
21. Does not require straightening.
22. Cannot be put together wrong.
23. Hammer and wrench only tools needed.
24. Can put up 80 feet in three hours.
25. Knocker is double.
26. Knocker and clamps hold track together.
27. Adaptation for double lock and trip carrier.
28. Can be put up in a circle.
29. Clamps hold it. No extra fitting.
30. Rigid hanging hooks stiffen track.
31. No remnants to dealers.
32. Warranted to stand two horses.
33. Can be taken apart and used again.
34. Rigid hanging hooks avoid end motion.
35. Purchasers can put up their own track.
36. Supported by horizontal and vertical flanges.
37. Has acknowledged superiority.
38. Steel Tee rails are 55 carbon.
39. Patented and mechanical principle.
40. Low price considering the quality.

Myers Double Lock Wood and Steel Track Unloaders Best On Earth!

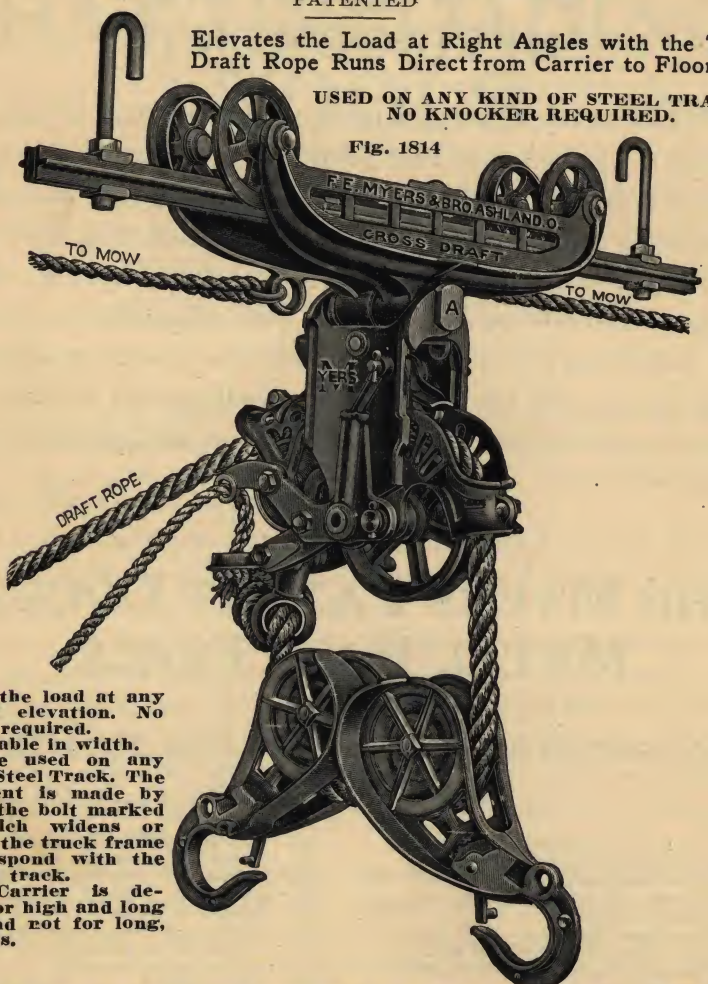
The Myers Cross Draft Sling Unloader With Steel Bearings.

PATENTED

Elevates the Load at Right Angles with the Track.
Draft Rope Runs Direct from Carrier to Floor Pulley.

USED ON ANY KIND OF STEEL TRACK
NO KNOCKER REQUIRED.

Fig. 1814



Holds the load at any point of elevation. No knocker required.

Adjustable in width.

Can be used on any make of Steel Track. The adjustment is made by turning the bolt marked "A" which widens or narrows the truck frame to correspond with the width of track.

This Carrier is designed for high and long barns and not for long, low sheds.

Fig. 1814 illustrates the Myers Cross Draft Sling Unloader for use on steel track. **The draft rope running direct from the carrier to the floor pulley permits the use of a much shorter draft rope and a less walk for the horse than is the case with the other styles of sling carriers.**

Construction: The Cross Draft Sling Carrier is constructed on the same principle as the Myers Sure Grip Sling Unloader, inasmuch as the entire weight of the load bears on the locking device. This means the heavier the load the greater the pressure on the lock; hence no chance for the rope to slip. In addition to this, the main rope sheave is fitted with lugs, which engage with dogs, thus stopping the revolving of the wheel and assisting the rope lock. It cannot cut the rope.

The carrier is so constructed that a knocker or stop lock is not required. Fits any Steel Track.

The large rope sheave carrying the load revolves on large steel axle.

The track wheels are 3¼ inches in diameter and revolve on ⅞ inch turned steel journals.

The frame or truck is extra heavy and long, so as to distribute the load over a greater portion of the track.

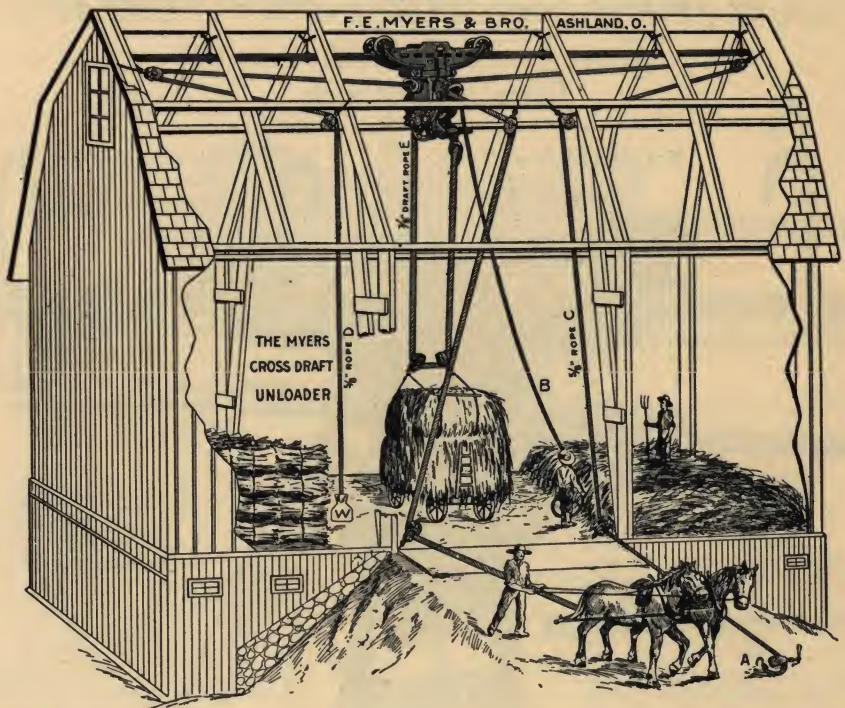
PRICE LIST, Represented by Fig. 1814.

No. 80, Myers Cross Draft Sling Unloader for any kind of Steel Track, rope draft. List... (*Pard*)..**$16.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Fig. 1417



Directions for Putting up and Operating The Myers Cross Draft Unloader.

The Carrier is mounted on the track with the smaller sized rope sheave facing the front of the barn or the large barn doors. The end of the draft rope **E** is tied to the small swivel eye in the center of the carrier. The other end of the draft rope is then passed through the two malleable frame pulley blocks with the flat flanged faces facing each other, after which the end of the rope is passed over the large sheave and directly through the center of the carrier, passing over the top of the small sheave. From this point it is carried to a pulley suspended to the perline plate over the center of the floor. From this point it is carried down to a pulley located at the side of the barn door.

Reverse Ropes, or the Smaller Ropes to Draw the Carrier and Load into the Mow.

Use ½ or ⅝ inch rope **C**, attaching same to the loop on the side of the frame of the carrier; then carry this rope through a pulley attached to the rafter at or near the end of the track; from this point carry the rope to a pulley tied to the perline plate over the floor just outside of the mow, thence down and through a pulley on the floor at the opposite side from where the draft rope pulley is attached. This small rope is then carried out in front of the barn and passed through a pulley attached to a stake; this stake is located a distance from the barn corresponding to the distance from the center of the barn floor back to the end of the mow plus about 12 feet (which equals the length of the team and hitch). To the end of this rope attach the wrought iron hook that is furnished with the carrier. A similar rope **D** is attached to the loop on the opposite side of the carrier and carried through pulleys at the other end of the barn in the same manner, which allows the car to be operated in either direction without further change than using this opposite rope instead of the one referred to.

Operation.

The team is attached to the draft rope **E** and driven out the distance necessary to lift the load as high as required; this only need be such distance as will permit the load of hay to clear the cross beams, at which point the team can be stopped. (The carrier is so arranged that it will hold the load at any point.) Then turn the team about, and in coming back past the stake to which the pulley is attached you attach the large wrought iron hook **A** to the doubletree or singletree, and the horses passing back to the barn draw the load into the mow. The result is that when the load is back over the mow the team is at the barn ready to start again. You now detach the wrought iron hook **A** from the doubletrees and drop it to the ground. The operation of returning the carrier to the point over the load also returns the hook and small rope to the pulley out in the yard. To drop the fork or slings to the wagon it is necessary to give a slight pull by hand on the draft rope **E**, which releases the lock on the carrier and allows the slings or fork to descend. The carrier is also arranged to attach a trip rope **B** to be operated from the load to release the lock to drop the slings. This rope **B** can be used instead of pulling on the large draft rope **E**.

Most users attach a weight to one of these small ropes **D** or **C** of sufficient weight to return the carrier to a point over the load, which makes it much easier for the operator. This, however, is optional with the user.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Sure Grip Sling Unloader.

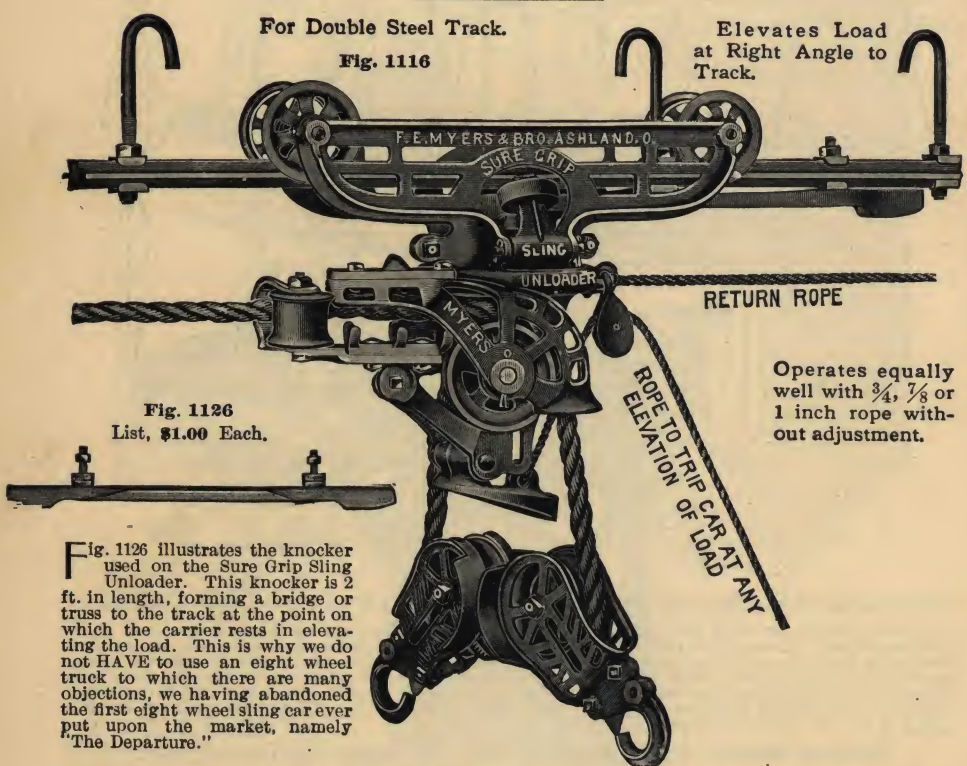
PATENTED.

Extra Long Truck.

For Double Steel Track.

Fig. 1116

Elevates Load at Right Angle to Track.



Operates equally well with ¾, ⅞ or 1 inch rope without adjustment.

Fig. 1126
List, $1.00 Each.

Fig. 1126 illustrates the knocker used on the Sure Grip Sling Unloader. This knocker is 2 ft. in length, forming a bridge or truss to the track at the point on which the carrier rests in elevating the load. This is why we do not HAVE to use an eight wheel truck to which there are many objections, we having abandoned the first eight wheel sling car ever put upon the market, namely "The Departure."

Fig. 1116 illustrates the Myers Sure Grip Sling Unloader, which has been rebuilt throughout. This machine, as now constructed, is so arranged that *it elevates the load at right angles with the track, with a result that when the load is discharged in the mow it lays parallel with the load on the wagon*, doing away entirely with the quarter turn of the load which has always been a serious objection on all other sling cars unless they use a separate attachment. The sling unloader is constructed entirely of malleable iron, is very heavy and of sufficient strength to withstand the hard usage to which such machines are subjected.

The ordinary sling car is constructed to hold a certain weight load. If by chance the operator overloads the carrier, the result is that the rope slips through the lock. This has been entirely overcome on the Sure Grip Unloader, as it is so arranged that the tension of the rope lock is regulated entirely by the weight of the load. In other words, the heavier the load the greater the tension of the rope lock. The result is that it is impossible for the rope to slip through the lock.

The Sure Grip Unloader operates automatically and is tripped by the sling pulleys striking a plate immediately under the machine. It is also arranged with a separate trip rope, by the use of which the load may be carried into the mow at any elevation desired without going entirely to the top of the barn. This is a great advantage when used in modern barns, which are built without cross beams, and saves a great deal of time and walking of the horse.

This machine is built for use on our regular Double Angle Steel Track and for Wood Track. Trucks are extra long, so as to distribute the load on two hanging hooks at all times.

PRICE LIST, Represented by Fig. 1116.

No. 50, Myers Sure Grip Sling Unloader for D. S. Track, rope draft. List.....(*Pact*).. **$15.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Sure Grip Sling Unloader for Double Steel Track.

PATENTED.

Fig. 1117

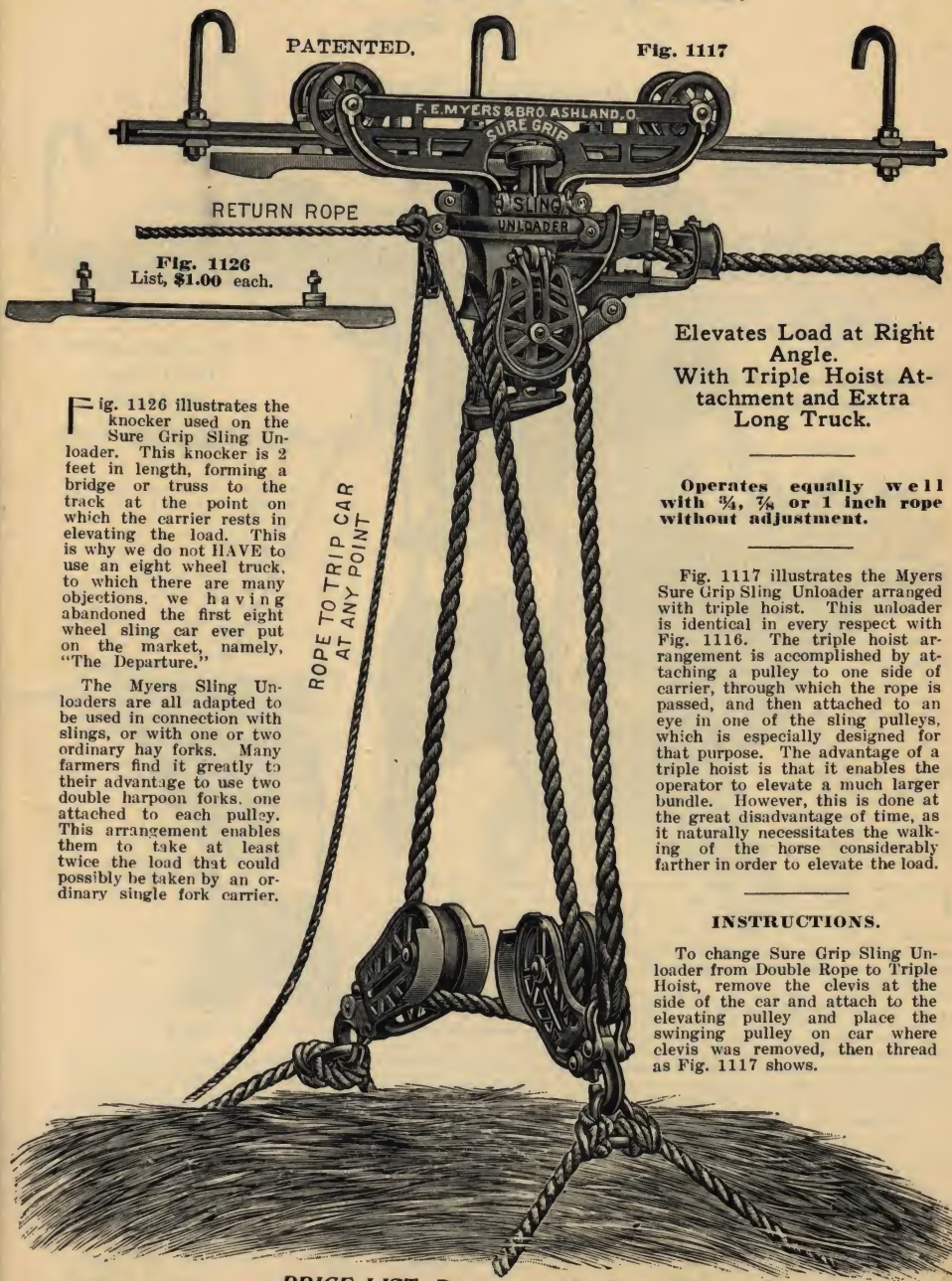


Fig. 1126
List, **$1.00** each.

Fig. 1126 illustrates the knocker used on the Sure Grip Sling Unloader. This knocker is 2 feet in length, forming a bridge or truss to the track at the point on which the carrier rests in elevating the load. This is why we do not HAVE to use an eight wheel truck, to which there are many objections, we having abandoned the first eight wheel sling car ever put on the market, namely, "The Departure."

The Myers Sling Unloaders are all adapted to be used in connection with slings, or with one or two ordinary hay forks. Many farmers find it greatly to their advantage to use two double harpoon forks, one attached to each pulley. This arrangement enables them to take at least twice the load that could possibly be taken by an ordinary single fork carrier.

Elevates Load at Right Angle.
With Triple Hoist Attachment and Extra Long Truck.

Operates equally well with ¾, ⅞ or 1 inch rope without adjustment.

Fig. 1117 illustrates the Myers Sure Grip Sling Unloader arranged with triple hoist. This unloader is identical in every respect with Fig. 1116. The triple hoist arrangement is accomplished by attaching a pulley to one side of carrier, through which the rope is passed, and then attached to an eye in one of the sling pulleys, which is especially designed for that purpose. The advantage of a triple hoist is that it enables the operator to elevate a much larger bundle. However, this is done at the great disadvantage of time, as it naturally necessitates the walking of the horse considerably farther in order to elevate the load.

INSTRUCTIONS.

To change Sure Grip Sling Unloader from Double Rope to Triple Hoist, remove the clevis at the side of the car and attach to the elevating pulley and place the swinging pulley on car where clevis was removed, then thread as Fig. 1117 shows.

PRICE LIST, Represented by Fig. 1117.

No. 55, Myers Sure Grip Sling Unloader for D. S. Track, rope draft, triple hoist. List (*Paction*) . . **$15.75**

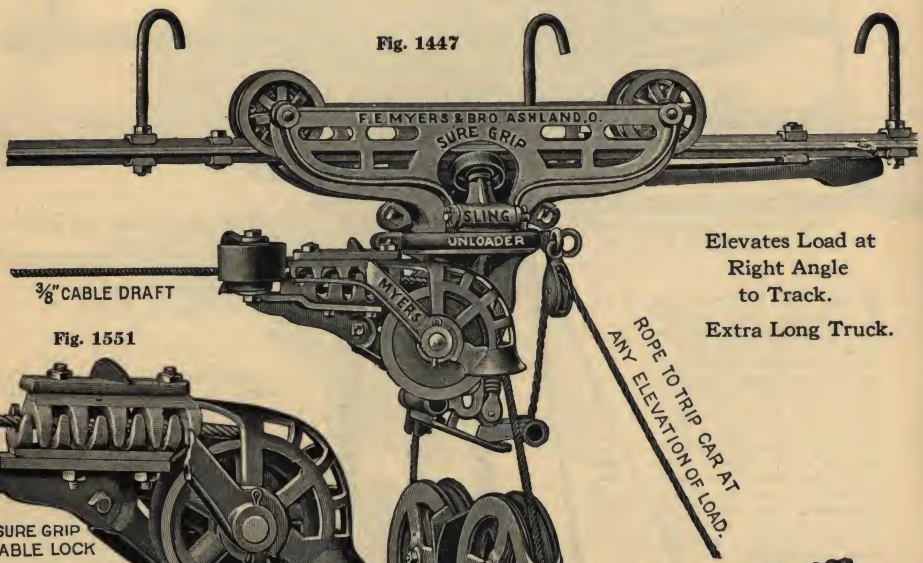
The Myers Sure Grip Sling Unloader.

PATENTED.

For Cable Draft Rope.

Made for Double Steel or Wood Track.

Fig. 1447



Elevates Load at Right Angle to Track.

Extra Long Truck.

Fig. 1551

Sure Grip Sling Cable Lock.

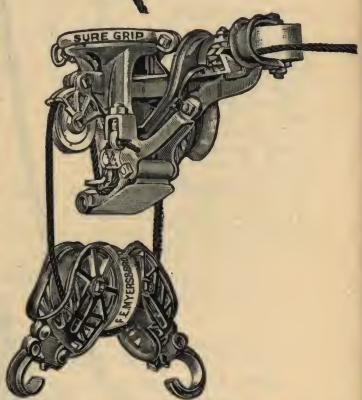
Fig. 1551 illustrates the cable lock as used on the Myers Sling Carrier. This lock is different from that used on other makes of similar machines.

Fig. 1447 illustrates the Myers Sure Grip Sling Unloader, fitted for Cable instead of Rope Draft. It is arranged to *elevate the load at right angles with the track, with a result that when the load is discharged in the mow it lays parallel with the load on the wagon*, doing away entirely with the quarter turn of the load, which has always been a serious objection on all other sling cars unless they use a separate attachment.

The ordinary sling car is constructed to hold a certain weight load. If by chance the operator overloads the carrier, the result is that the cable slips through the lock. This has been entirely overcome on the Sure Grip Unloader, as it is so arranged that the tension of the lock is regulated entirely by the weight of the load. In other words, the heavier the load the greater the tension of the lock. The result is that it is impossible for the cable to slip through the lock.

The Sure Grip Unloader operates automatically and is tripped by the sling pulleys striking a plate immediately under the machine. It is also arranged with a separate trip rope, by the use of which the load may be carried into the mow at any elevation desired without going entirely to the top of the barn. This is a great advantage when used in modern barns which are built without cross beams, and saves a great deal of time and walking of the horse.

This machine is built for use on our regular Double Angle Steel Track and for Wood Track.



The illustration shown above will enable anyone to correctly thread the Unloader with cable. It is very important that the end of the cable (shown in center of illustration) be securely clamped **after** the unloader is properly threaded.

PRICE LIST.

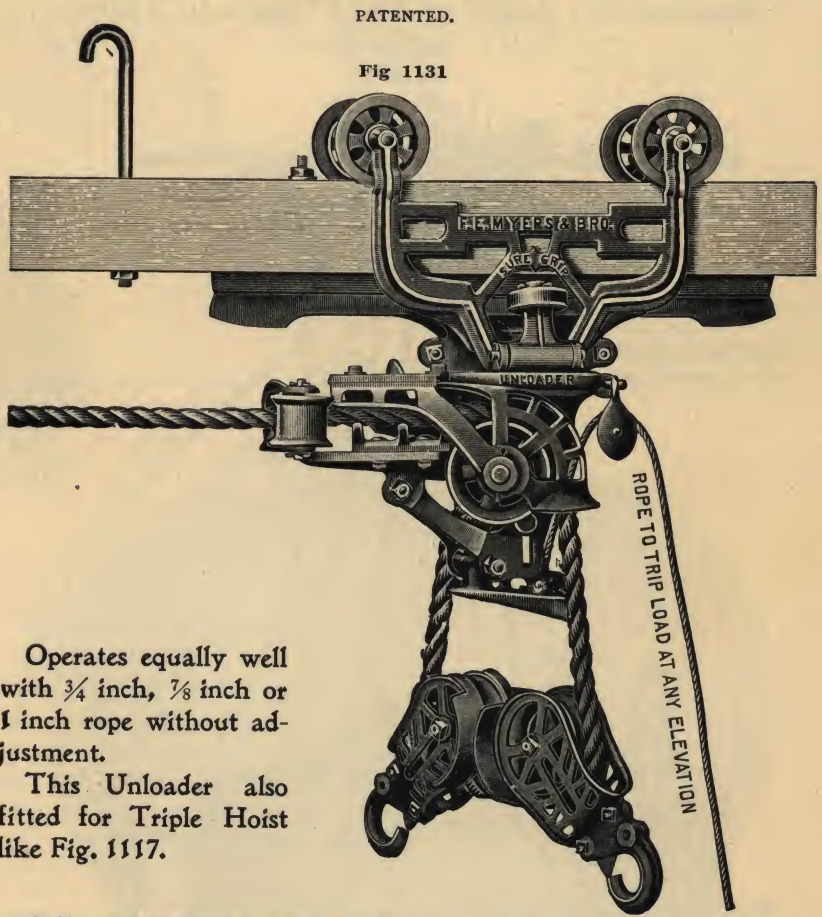
No. 60. Myers Sure Grip Sling Unloader for D. S. Track, cable draft. List.....(*Poise*).. **$16.50**
No. 66. Myers Sure Grip Sling Unloader for Wood Track, cable draft. List.....(*Putral*).. **16.50**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Sure Grip Sling Unloader for Wood Track.

PATENTED.

Fig 1131



Operates equally well with ¾ inch, ⅞ inch or 1 inch rope without adjustment.

This Unloader also fitted for Triple Hoist like Fig. 1117.

Fig. 1131 illustrates the Myers Sure Grip Sling Unloader arranged to be operated on wood track, and is the same in every respect as Fig. 1116 for double steel track, with the exception of the main truck, which is made to fit a 4 x 4 track instead of the regular double steel track. These Sure Grip Sling Unloaders are all made to be used in connection with slings, or with one or two forks. Many farmers find it to their advantage to use two ordinary hay forks instead of one.

Another special feature of this machine is that the load can be held at any elevation. It is so arranged that by pulling on the special trip rope for that purpose the car can be tripped from the knocker and run into the mow without elevating the load entirely to the peak of the barn. This is a great saving in the walk of the horse, also of the time required to unload a given quantity of hay.

The machine is made of malleable iron throughout; is fitted with steel bearings and a rope lock that is guaranteed to hold any size load.

PRICE LIST.

No. 65, Myers Sure Grip Sling Unloader for Wood Track, rope draft, List .....(*Rac*).. **$15.00**
No. 67, Myers Sure Grip Sling Unloader for Wood Track, rope draft, triple hoist, List (*Putlog*).. **15.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Sure Grip Two-Fork Unloader.

PATENTED.

Elevates the Load at Right Angle to Track. Extra Long Truck.

Fig. 1334

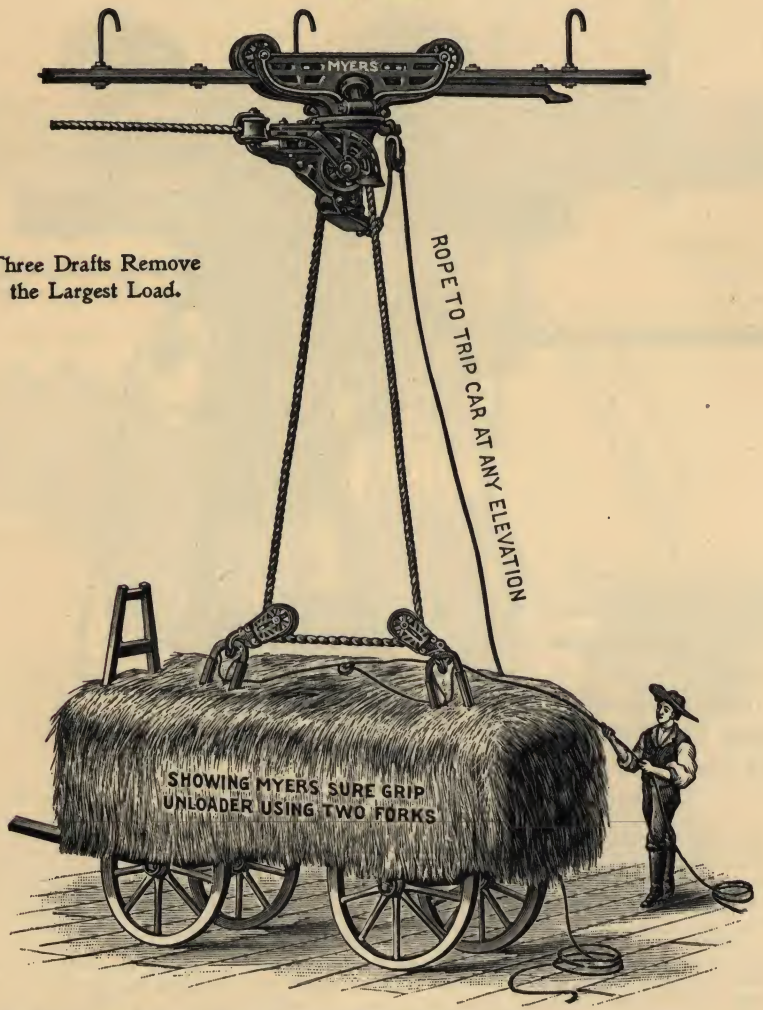


Fig. 1334 illustrates the Myers Sure Grip Two-Fork Unloader in operation.

We call particular attention to the above outfit, and to its unusual capacity. By using two forks, placing one at either end of the load of hay, the entire top of the load can be removed at one draft, thus handling as much hay at one draft as can possibly be done in three drafts by using a single fork. This tool is in line with present practice of using larger machinery to expedite the work on the farm.

The unloader can also be used with one hay fork or with the ordinary slings, thus making a most desirable tool for the farmer, as no time whatever is required to make the change from forks to slings, or vice versa, as it can be done instantly by simply unhooking the fork from the pulley and attaching the sling.

This Outfit is Especially Recommended.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Sure Grip

THE ONLY MACHINE THAT ELEVATES THE LOAD AT RIGHT ANGLES WITH THE TRACK AND DEPOSITS IT THE LONG WAY OF THE MOW.

Fig. 1139
(Kratu)
List, **$0.75** Each.

TRIPLE HOIST ATTACHMENT

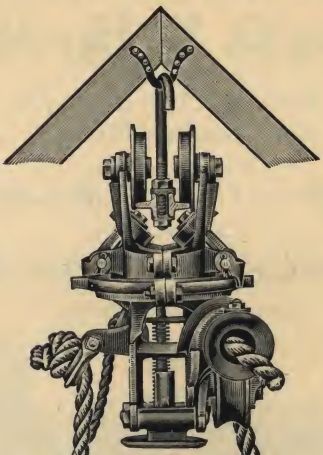


Fig. 1180

Sling Unloader in Operation.

THE ONLY MAKE OF SLING CARRIER THAT WILL POSITIVELY HOLD ANY WEIGHT LOAD WITHOUT CHAFING THE ROPE. IS AUTOMATIC. PERMITS THE LOAD TO BE CARRIED INTO THE MOW AT ANY ELEVATION FROM THE FLOOR.

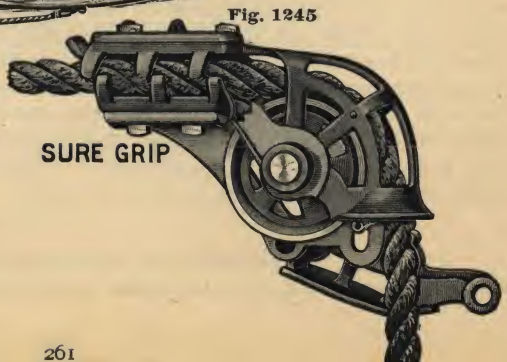
Load opens lengthwise of the mow. **No other make of machine can do it,** unless they use right angle sling pulleys which add one half horse power to the draft. The load is deposited at right angles with the track.

Sure Grip Sling Rope Lock.

Fig. 1245 illustrates the rope lock as used on the Myers Sling Carrier. This lock is different from any rope lock used on other makes of similar machines.

NOTICE—The lock is composed of two parts, each having three heavy ribs which clamp the rope by grasping it alternately (having the effect of snubbing a rope around a post). As these clamps do NOT come opposite each other there is no chance of the rope being chafed.

Fig. 1245



F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

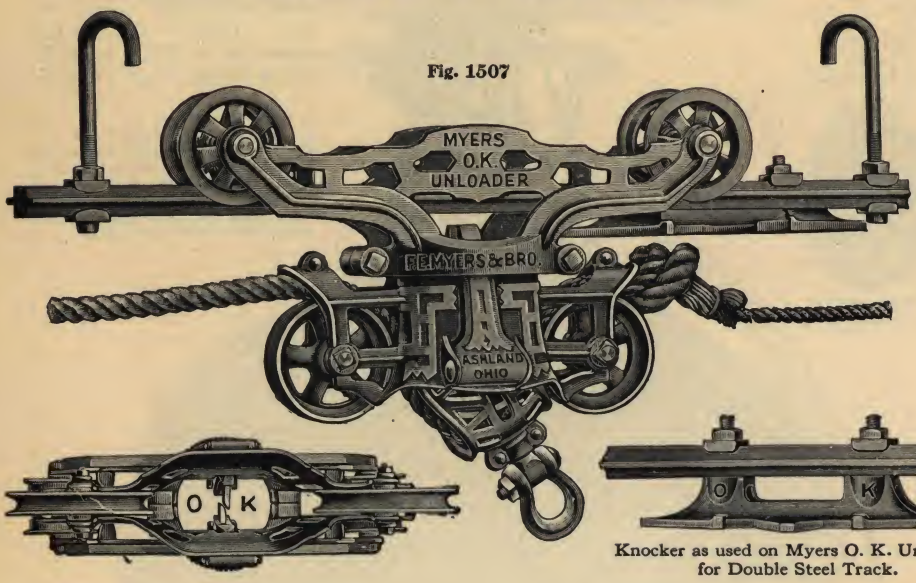
PATENTED.

Has Extra Long Truck.

Reversible and Swivel. For Double Steel Track.

Has Seven Eighth Inch Turned Steel Axles.

Fig. 1507



Knocker as used on Myers O. K. Unloader for Double Steel Track.

The Myers O. K. Unloader is our latest and best production. Has extra long and heavy truck, distributing the load on track and designed for heavy work, such as slings or two forks.

Fig. 1507 illustrates the Myers O. K. Hay Unloader, Combination, Reversible, as made to be used in connection with our regular double angle steel track. This carrier embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over any other machine on the market. It is fitted with our old reliable double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all conditions. The rope sheaves are fitted with wide hub and have longer bearings on the axle than any other make of carrier. We guarantee this machine to be stronger than any other carrier made for steel track. For strength, simplicity, neatness of design, and up-to-date features it is without a peer.

PRICE LIST, Represented by Fig. 1507.

No. 200. Myers O. K. Unloader for D. S. Track, rope draft. List ..... *(Potash)* . . $8.75

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

For Rope or Cable Draft

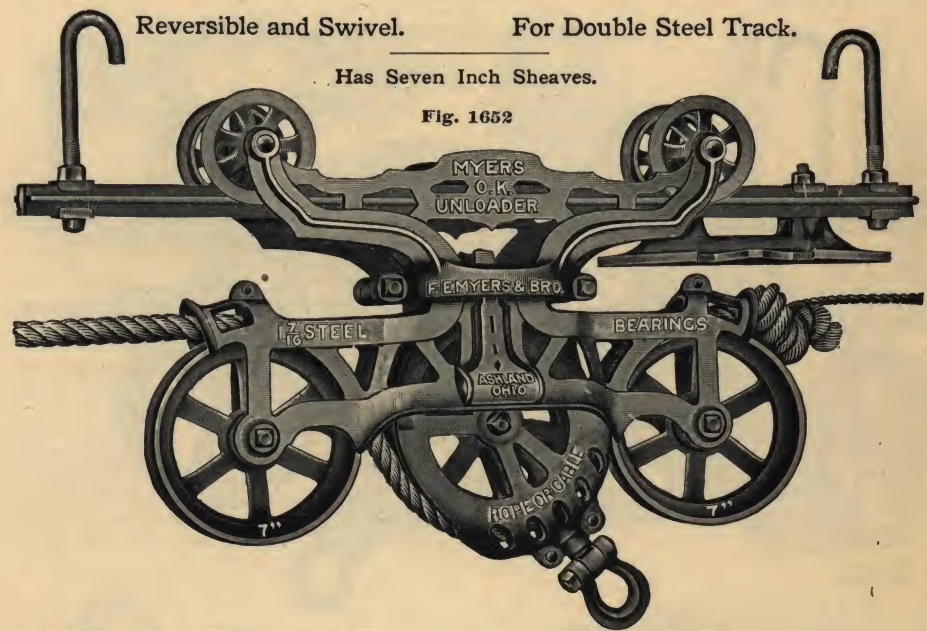
PATENTED.

Has Extra Long Truck. **Large Steel Bearings.**

Reversible and Swivel. **For Double Steel Track.**

Has Seven Inch Sheaves.

Fig. 1652



1 7/16" STEEL BEARING

1 7/16 STEEL BEARING

Sheave will carry Rope or Cable. The Bearing is 1 7/16 inch Polished Steel.

Knocker as used on Myers O. K. Unloader for Double Steel Track.

The Myers O. K. Unloader with extra long truck and seven inch sheaves for cable draft rope. Especially designed for heavy work. The long truck distributes the load on the track and adapts the car for using two forks or slings.

Fig. 1652 represents the Myers O. K. Hay Unloader as built for using rope or cable for draft rope. The special advantage of wire rope is that it is much easier to handle than a large rope. It also gives practically three times the amount of wear, while the original expense of the wire over the manila is but slight, the unloader being adapted to either rope or cable, which will be appreciated.

We are furnishing large quantities of this style carrier for Western trade and are of the opinion that as soon as it has become known it will be generally used throughout all hay growing territory.

The sheaves are seven inches in diameter, with a groove suitable for carrying ⅜ or ½ inch wire rope. The bearings on all rope sheaves are 1 7/16 inch diameter, hard turned steel.

PRICE LIST, Represented by Fig. 1652.

No. 209, Myers O. K. Unloader for D. S. Track, rope or cable draft, 7 inch sheave, 1 7/16 inch steel bearings. List.....(*Pullet*).. **$10.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

For Rope or Cable Draft.

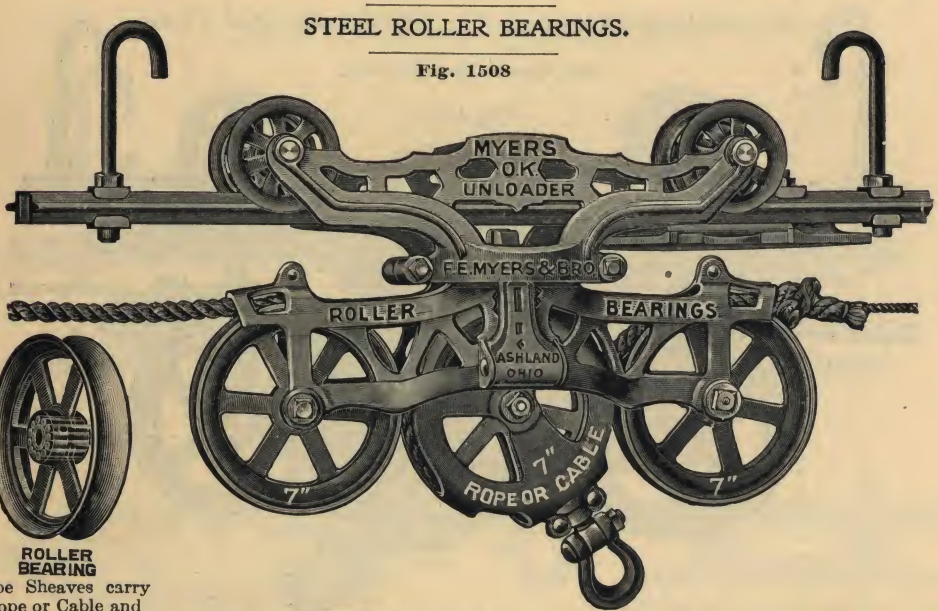
PATENTED.

Has Extra Long Truck and Seven Inch Sheaves.

Reversible and Swivel. For Double Steel Track.

STEEL ROLLER BEARINGS.

Fig. 1508



ROLLER BEARING

Rope Sheaves carry Rope or Cable and have Hard Steel Roller Bearings.

Knocker as used on Myers C K. Unloader.

The Myers O. K. Unloader with extra long truck and seven inch rope sheaves with Steel Roller Bearings is designed especially for heavy work. The long truck distributes the load on the track and adapts the car for using two forks or slings.

Fig. 1508 illustrates the Myers O. K. Hay Unloader, Combination, Reversible, as made to be used in connection with our regular double angle steel track. This carrier embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over any other machine on the market. It is fitted with our old reliable double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all conditions. The rope sheaves are seven inches in diameter, fitted with wide hub, and have large Steel Roller Bearings revolving on steel axles, insuring long life and easy draft; they carry a special shaped groove suited to Rope or Cable. We guarantee this machine to be stronger than any other carrier made for steel track. For strength, simplicity, neatness of design and up-to-date features it has never been equalled.

PRICE LIST, Represented by Fig. 1508.

No. 215, Myers O. K. Unloader for D. S. Track, rope or cable draft, 7 inch sheave, roller bearings. List.....(*Puya*).. **$11.25**

F. E. MYERS AND BRO.

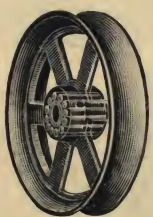
ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

For Double Steel and Wood Track.

Showing Parts in Detail.

Fig. 987.



ROLLER BEARING
Showing Roller Bearings and Sheave that carries either Rope or Cable.

Fig. 1086.

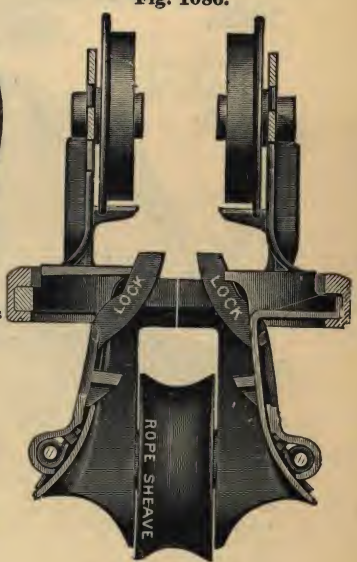


Fig. 987 represents a bottom view of Myers O. K. Hay Unloader with fork pulley detached.

Note the large opening in carrier to receive the fork pulley; it is impossible for it to miss. Fork pulley has extremely short nose and is held in position by two separate locks.

1 7/16 STEEL BEARING
1 7/16 inch Hard Steel Bearing Machined and Polished.

Fig. 1086 shows a cross section of the car and its great strength. Note the two separate locks that engage both sides of fork pulley frame. Either lock will hold the load regardless of the other

Fig. 1042.

Fig. 846.

Track Wheel and Turned Steel Axle. Weight Carried in Center of Wheel.

KNOCKER.
Bottom View of Knocker, Showing Manner in which Double Lock Operates.

Fig. 1046.

END STOP ATTACHED TO TRACK

Myers Patent Double Metal Rail Track.

29,591,000 Feet of this Track Has Been Sold.

List, (*Rail*), **25 cents per foot**

Fig. 824.

Cross Section of Track.

The Myers Patent Double Metal Rail Track.

Over 29,591,000 Feet of This Track Has Been Sold.

List (*Rail*) . . **25 cents per foot.**

Fig. 824

Fig. 301
(*Keeper*)
List, **$0.65** doz.

Steel.

Fig. 1282 -(*Rail.*)

Fig. 302
(*Joy*)
$1.75 doz.

Fig. 1042
(*Heap*)
$1.25 doz.

The above cut represents our Patent Double Steel Track, which is made as shown in cut, by placing two T steel rails together, held to place by the clamps and hanging hooks, with space between so the hanging hook can be placed where it coincides with rafter, thus making it a very convenient track to put up. The joints are made with a three bolt clamp, Fig. 824, which is of sufficient strength to make track as strong and stiff as elsewhere. The hanging hook serves as a clamp also, and adds much in holding track to place, serving for clamp and hanging hook. When the track is clamped together it becomes very stiff, and is the most complete device known for a hay or merchandise carrier track. It is easily put up. No riveting. A wrench is the only tool needed. It is a complete system The rails have been made to our special order, and are what is known as rail carbon; are uniformly stiff and hard.

THE JOINT CLAMP is composed of two pieces of malleable iron and three ½ inch bolts, by means of which the track is clamped together with what is known as a broken joint, as shown in Fig. 824. This gives the same strength at the joint as in any other part of the track.

THE HANGING HOOK is ½ inch steel with a malleable clamp and locknut; is adjustable to any point on the track. By using the locknut the hanging hook forms a brace to the track, thus not only carrying the weight at the hook, but also stiffening the track between the hooks, as the hook is a rigid part of the track after placed in position.

A special feature of the Myers rail is that anyone can put up 100 feet of Myers Double Steel Track in the same time required to put up 50 feet of any other make of track. The reason for the above is that in placing the Myers track the first thing necessary is to place the rafter brackets, then bring up the 12 foot lengths of track and place the hanging hooks over the rafter brackets and through the track, after which the nuts are drawn tight. Thus you will notice that we begin at the top of the barn and finish at the bottom of the track with nothing in the way, whereas with other styles of double track it is necessary to begin at the bottom of the track, placing the hanging hook in position, then place the rafter bracket through the hanging hook and nail the rafter bracket in place. This requires time as the operator is always working under a disadvantage.

MYERS PATENT STEEL TRACK BUNDLED

The above cut illustrates a bundle of Myers Double Steel Track as put up for shipment.

MYERS PATENT STEEL TRACK

The above cut represents a 12 foot length of Myers Double Steel Track clamped together as shaped out. Note offset at the end of the track, which illustrates the manner in which the splice is made, thus giving strength to the joint as on the balance of the track.

Myers Double Steel Track with Joint Clamps and Bolts, (**Hanging Hooks Extra.**)
List, per foot. . . . . (*Rail*) . . **$0.25**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

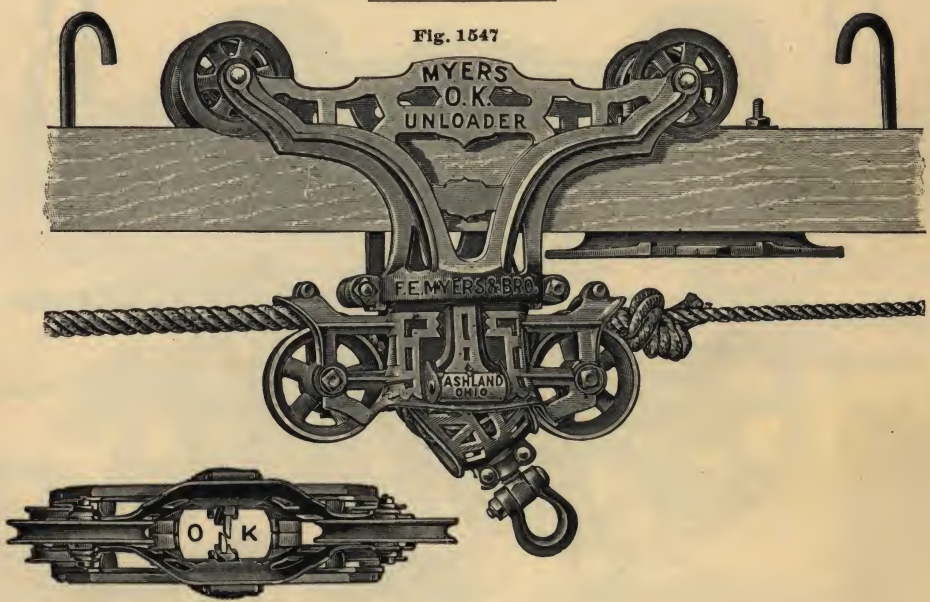
PATENTED

Has Extra Long Truck.

Reversible and Swivel. For Wood Track.

Has Seven-Eighths Inch Turned Steel Axles.

Fig. 1547



The Myers O. K. Unloader is our latest and best production. Has extra long and heavy truck, distributing the load on track and designed for heavy work, such as slings or two forks.

Fig. 1547 illustrates the Myers O. K. Hay Unloader, Combination, Reversible, as made to be used in connection with wood track. This carrier embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over any other machine on the market. It is fitted with our old reliable double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all conditions. The rope sheaves are fitted with wide hub and have longer bearings on the axle than any other make of carrier. We guarantee this machine to be stronger than any other carrier made. For strength, simplicity, neatness of design and up-to-date features it is without a peer.

PRICE LIST, Represented by Fig. 1547.

No. 205, Myers O. K. Unloader for Wood Track, rope draft. List.....(*Praise*)..**$8.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

Rope or Cable Draft. For Wood Track.

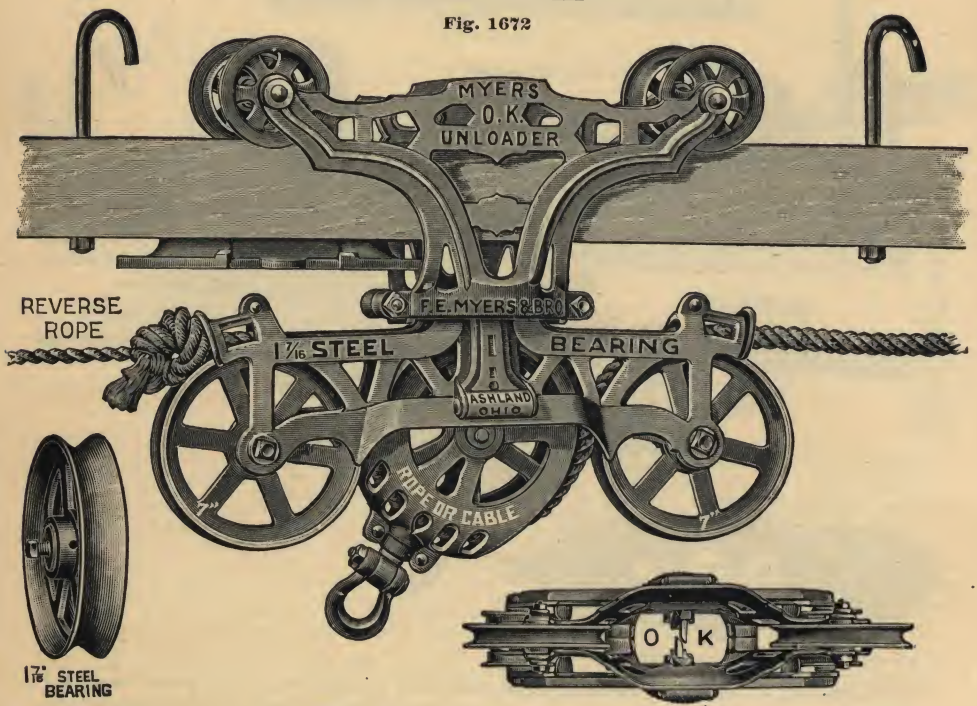
PATENTED.

Extra Long Truck and Seven Inch Sheaves.

1 7/16 Inch Steel Bearings.

Reversible and Swivel.

Fig. 1672



The Myers O. K. Unloader with extra long truck and seven inch rope sheaves with Steel Bearings is designed especially for heavy work. The long truck distributes the load on the track and adapts the car for using two forks or slings.

Fig. 1672 illustrates the Myers O. K. Hay Unloader, Combination, Reversible, as made to be used in connection with wood track. This carrier embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over any other machine on the market. It is fitted with the Myers double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide, open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all conditions. The rope sheaves are seven inches in diameter for use with either rope or cable, fitted with wide hub, and have large Steel Bearings, insuring long life and easy draft. We guarantee this machine to be stronger than any other carrier made. For strength, simplicity, neatness of design and up-to-date features it has never been equalled.

PRICE LIST, Represented by Fig. 1672.

No. 212, Myers O. K. Unloader for Wood Track, rope or cable draft, 7 inch sheave, 1 7/16 inch steel bearings. List.....*(Pygmy)*.. **$10.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers O. K. Hay Unloader.

For Rope or Cable Draft.

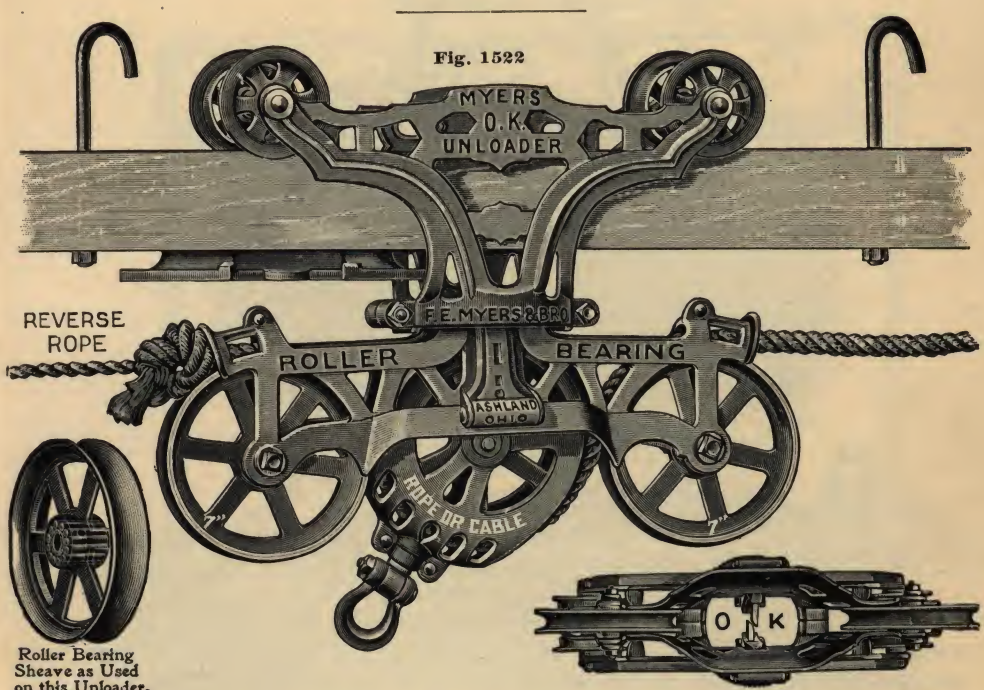
PATENTED.

Extra Long Truck and Seven Inch Sheaves.

Reversible and Swivel. For Wood Track.

STEEL ROLLER BEARINGS.

Fig. 1522



Roller Bearing Sheave as Used on this Unloader.

The Myers O. K. Unloader with extra long truck and seven inch rope sheaves with Steel Roller Bearings is designed especially for heavy work. The long truck distributes the load on the track and adapts the car for using two forks or slings.

Fig. 1522 illustrates the Myers O. K. Hay Unloader, Combination, Reversible, as made to be used in connection with wood track. This carrier embodies all the features of the straight reversible and swivel reversible carrier and has many advantages over any other machine on the market. It is fitted with the Myers double lock, which engages the fork pulley on each side, thus insuring a perfect locking device. One of the important features of this machine is the wide open mouth, which permits the fork pulley to enter when swinging at any angle, thus insuring a satisfactory working carrier under any and all conditions. The rope sheaves are seven inches in diameter, fitted with wide hub, and have large Steel Roller Bearings revolving on steel axles, insuring long life and easy draft. We guarantee this machine to be stronger than any other carrier made. Sheaves are designed to carry rope or cable.

PRICE LIST, Represented by Fig. 1522.

No 220, Myers O. K. Unloader for Wood Track, rope or cable draft, 7 inch sheave, roller bearings. List.....(*Prance*) **.$11.25**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Fig. 1561

The Myers O. K. Unloader

PATENTED.

Arranged to Handle Two Forks

Elevates the Load at Right Angle. Extra Long Truck.

Fig. 1561 illustrates the Myers O. K. Unloader in operation, using two forks.

We call particular attention to the above outfit, and to its unusual capacity. By using two forks, placing one at either end of the load of hay, the entire top of the load can be removed at one draft, thus handling as much hay at one draft as can possibly be done in three drafts by using a single fork.

This tool is in line with present practice of using larger machinery to expedite the work on the farm.

The Unloader can also be used with one hay fork or with the ordinary slings, thus making a most desirable tool for the farmer, as no time whatever is required to make the change from forks to slings, or vice versa, as it can be done instantly by simply unhooking the fork from the clevis and attaching the universal sling pulley hook.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

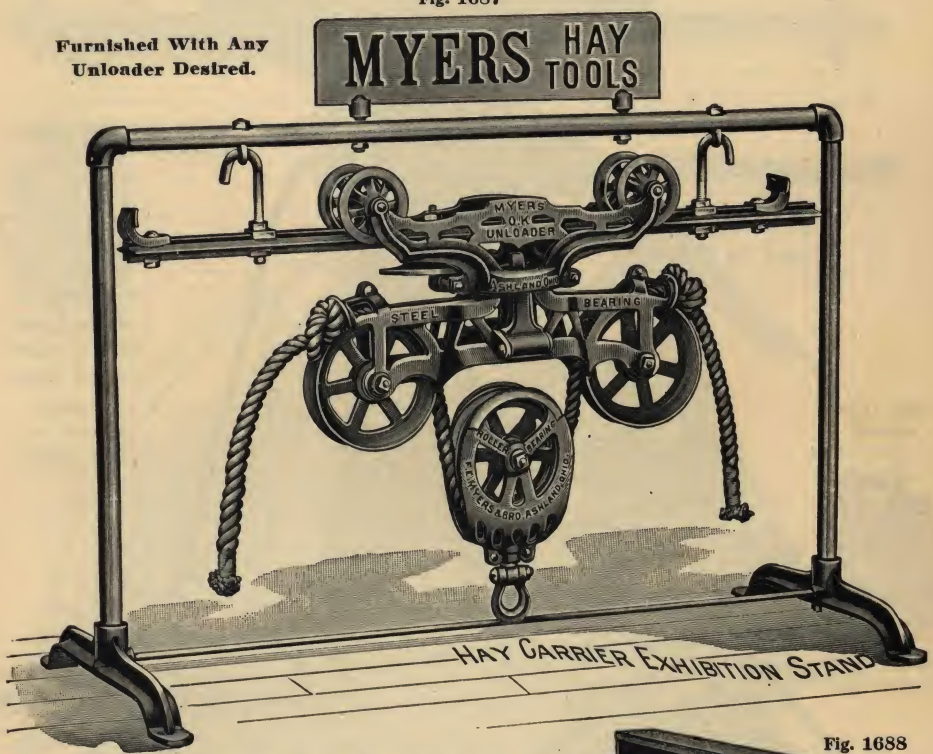
Dealers Display Stand.

Goods Properly Exhibited are Half Sold.

Size—20 Inches Wide, 30 Inches High, and 45 Inches Long.
Can be Set on Counter or Floor.

Fig. 1687

Furnished With Any Unloader Desired.



The object of furnishing this Display Stand is to increase the sale of Myers Unloaders. It is furnished free with an order for the necessary quantity of Hay Tools.

Fig. 1687 illustrates a new Display Stand for exhibiting Myers Unloaders, designed to assist the dealer in selling Hay Tools. It is a complete and artistic exhibit which enables the dealer to show the many advantages, strength, durability and ease of operation of Myers Unloaders.

The Stand and Unloader are mounted complete and roped ready for operation on removal of the crate. *We make no charge* for anything except the Unloader, which is billed at dealer's discount of Unloader ordered. **Please specify what Number of Unloader is desired.**

The Display Stand is not furnished except with Unloader mounted and roped ready for operation. The whole is enclosed in a strong crate.

No discount is allowed on these samples to jobbers.

Fig. 1688

Fig. 1688 shows the Display Stand crated for shipment.

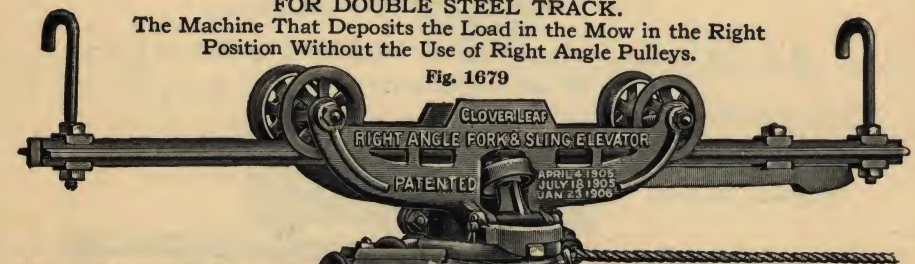
The Clover Leaf Right Angle Sling Elevator.

PATENTED.

FOR DOUBLE STEEL TRACK.

The Machine That Deposits the Load in the Mow in the Right Position Without the Use of Right Angle Pulleys.

Fig. 1679



RETURN ROPE

The Machine is Reversed by Turning the Swivel from Left to Right. Has 7/8 Inch Turned Steel Bearings. Double or Triple Hoist.

Fig. 1174

ROPE TO TRIP CAR AT ANY ELEVATION OF LOAD

Fig. 1139
(*Krater*)
List, $0.75 Each.

TRIPLE HOIST ATTACHMENT

(*Knocker*)
List, $1.00

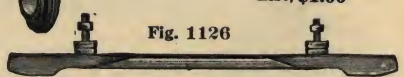
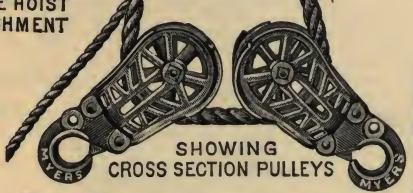


Fig. 1126



SHOWING CROSS SECTION PULLEYS

Fig. 1126 illustrates the knocker used on the Clover Leaf Right Angle Fork and Sling Elevator. This knocker is 2 feet in length, forming a bridge or truss to the track at the point on which the carrier rests in elevating the load. This is why we do not HAVE to use an eight wheel truck, to which there are many objections, we having abandoned the first eight wheel sling car ever put on the market.

Figs. 1679 and 1174 illustrate the Clover Leaf Right Angle Fork and Sling Elevator, made entirely of malleable iron, with a truck operating on an 18 inch wheel base, is very heavy and of sufficient strength to withstand the ordinary usage to which such machines are subjected. The machine is so arranged that **it elevates the load at right angles with the track, with the result that when the load is discharged in the mow, it lays parallel with the load on the wagon,** a feature not accomplished by sling carriers put out by any other manufacturer, unless they use special right angle pulleys which add at least one half horse power to the draft.

The ordinary sling carrier is constructed to hold a certain weight of load. If by chance the operator overloads the carrier, the result is that the rope slips through the lock, causing it to wear. This has been entirely overcome on the Right Angle Fork and Sling Elevator, as it is so arranged that the tension of the rope l ock is **regulated entirely by the weight of the load.** In other words, the heavier the load, the greater the tension on the rope lock. The result is that it is impossible for the rope to slip through the lock; hence **no chafing of the rope. The lock adjusts itself to any size rope, 3/4 to 1 inch.**

The Right Angle Fork and Sling Elevator operates automatically, and is tripped by the sling pulley striking a plate immediately under the carrier. **It is also arranged with a separate trip rope (shown in cut), by the use of which the load may be carried into the mow at any elevation desired without drawing entirely to top of barn.**

The Right Angle Fork and Sling Elevator is adapted to be used in connection with slings, or with one or two ordinary hay forks as desired.

PRICE LIST.

No. 70, Clover Leaf Right Angle Sling Elevator for D. S. Track, rope draft. List..... (*Putrid*).. **$15.00**
No. 71, Clover Leaf Right Angle Sling Elevator for D. S. Track, rope draft, triple hoist. List ..... (*Putt*).. **15.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Clover Leaf Right Angle

THE ONLY MACHINE THAT ELEVATES THE LOAD AT RIGHT ANGLES WITH THE TRACK AND DEPOSITS IT THE LONG WAY OF THE MOW.

Fig. 1139
(Kratu)
List, $0.75
Each.

TRIPLE HOIST ATTACHMENT

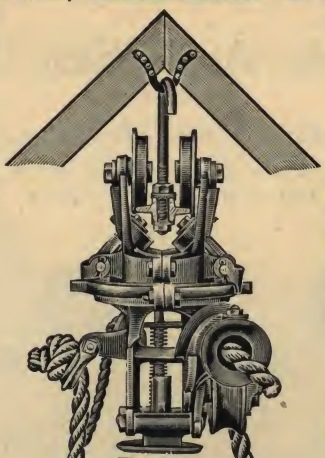


Fig. 1180

Sling Elevator In Operation.

THE ONLY MAKE OF SLING CARRIER THAT WILL POSITIVELY HOLD ANY WEIGHT LOAD WITHOUT CHAFING THE ROPE. IS AUTOMATIC. PERMITS THE LOAD TO BE CARRIED INTO THE MOW AT ANY ELEVATION FROM THE FLOOR.

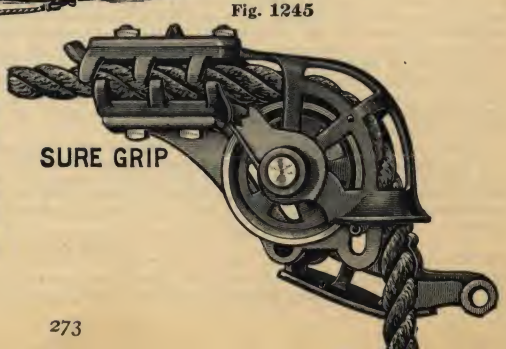
Load opens lengthwise of the mow. **No other make of machine can do it,** unless they use right angle sling pulleys which add one half horse power to the draft. The load is deposited at right angles with the track.

Sure Grip Sling Rope Lock.

Fig. 1245 illustrates the rope lock as used on the Clover Leaf Sling Carrier. This lock is different from any rope lock used on other makes of similar machines.

Notice:—The lock is composed of two parts, each having three heavy ribs which clamp the rope by grasping it alternately (having the effect of snubbing a rope around a post). As these clamps do *not* come opposite each other there is no chance of the rope being chafed.

Fig. 1245



The Right Angle Sling Elevator.

PATENTED.

FOR WOOD TRACK.

The Machine That Deposits the Load in the Mow in the Right Position Without the Use of Right Angle Pulleys.

Fig. 1549

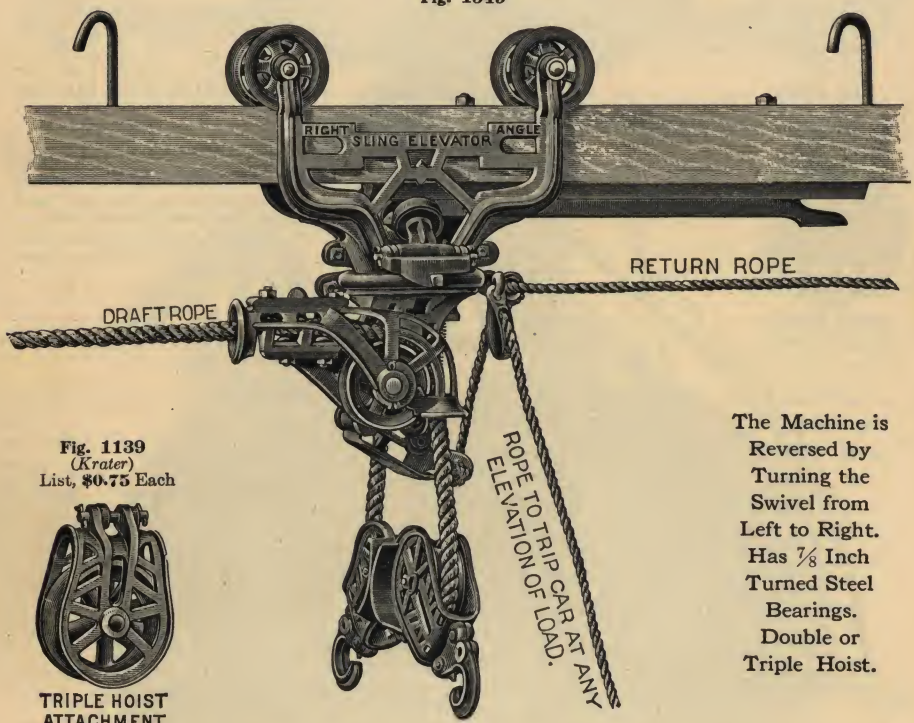


Fig. 1139
(Krater)
List, **$0.75** Each

TRIPLE HOIST ATTACHMENT

The Machine is Reversed by Turning the Swivel from Left to Right. Has 7/8 Inch Turned Steel Bearings. Double or Triple Hoist.

Fig. 1549 illustrates the Right Angle Fork and Sling Elevator, for wood track, made entirely of malleable iron, with a truck operating on an 18 inch wheel base; is very heavy and of sufficient strength to withstand the ordinary usage to which such machines are subjected. The machine is so arranged that **it elevates the load at right angles with the track, with the result that when the load is discharged in the mow, it lays parallel with the load on the wagon,** a feature not accomplished by sling carriers put out by any other manufacturer, unless they use special right angle pulleys which add at least one half horse power to the draft.

The ordinary sling carrier is constructed to hold a certain weight of load. If by chance the operator overloads the carrier, the result is that the rope slips through the lock, causing it to wear. This has been entirely overcome on the Right Angle Fork and Sling Elevator, as it is so arranged that the tension of the rope lock **is regulated entirely by the weight of the load.** In other words, the heavier the load the greater the tension on the rope lock. The result is that it is impossible for the rope to slip through the lock; hence **no chafing of the rope. The lock adjusts itself to any size rope, 3/4 to 1 inch.**

The Right Angle Fork and Sling Elevator operates automatically, and is tripped by the sling pulley striking a plate immediately under the carrier. **It is also arranged with a separate trip rope (shown in cut), by the use of which the load may be carried into the mow at any elevation desired without drawing entirely to top of the barn.**

This is a great advantage when used in modern barns without cross beams, as the load need only be elevated to the height necessary to pass into the mow, and not to the top of the barn.

The Right Angle Fork and Sling Elevator is adapted to be used in connection with slings, or with one or two ordinary hay forks, as desired. Many farmers prefer to use two forks, one attached to each pulley. This arrangement enables them to take at least twice the load that could possibly be taken by an ordinary fork carrier.

PRICE LIST.

No. 75, Right Angle Sling Elevator for Wood Track, rope draft. List.....*(Prank)*.. **$15.00**
No. 76, Right Angle Sling Elevator for Wood Track, rope draft, triple hoist. List.....*(Putter)*.. **15.75**

The Myers Clover Leaf Unloader.

PATENTED.

SWIVEL AND REVERSIBLE. 16 INCH TRUCK.
For Double Steel Track.

Fig. 1847

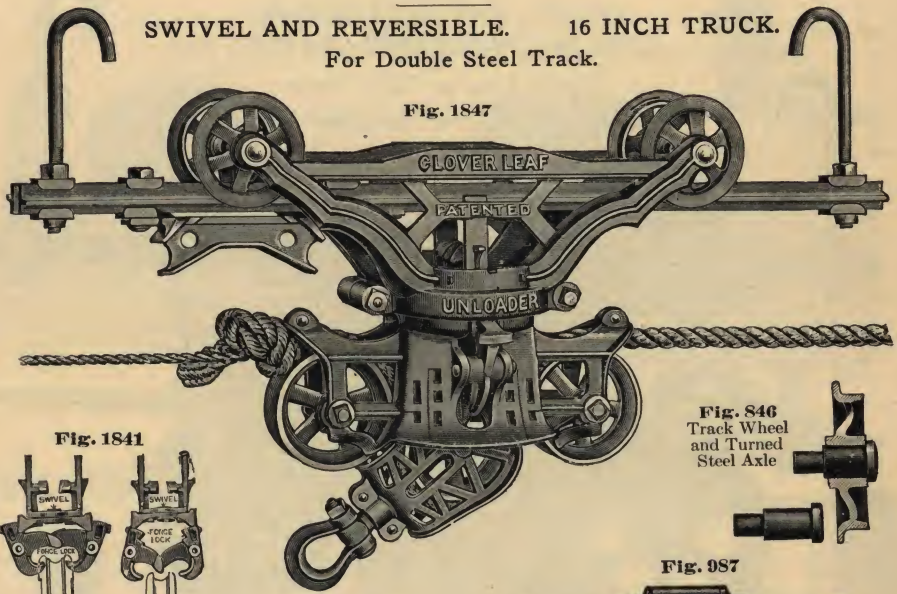
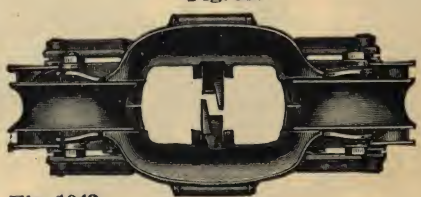


Fig. 846
Track Wheel and Turned Steel Axle

Fig. 1841

Locking Device.

Fig. 987



Knocker.

Fig. 1042
List, **$1.25** doz.

Fork Pulley. List, **$1.25** each.

Fig. 1847 represents the new Clover Leaf Unloader made of malleable iron throughout. Has 16 inch truck. It is heavy and substantially made. It is fitted with wide open mouth to receive the fork pulley when approaching in any direction. Also has swinging fork pulley, which relieves the carrier from all strain when drawing hay over a high beam or into a well filled mow. The track wheels revolve on ⅞ inch turned steel axles (Fig. 846). The rope sheaves have longer hub than any other make of carrier.

The lock is composed of three parts and has no springs. Fig. 1841, the locking device, grasps the fork pulley on either side and permits it to swing free.

Fig. 987 is a bottom view of this carrier, illustrating the wide open mouth.

Fig. 1841. End view, showing fork pulley and the two hooks engaged with pulley frame; also shows pulley after it is released.

PRICE LIST, Represented by Fig. 1847.

No. 114, Myers Clover Leaf Unloader for D. S. Track, rope draft. List.....(*Pylon*)..**$8.75**

The Myers Clover Leaf Unloader.

PATENTED.

SWIVEL AND REVERSIBLE.
FOR DOUBLE STEEL TRACK.

For Rope or Cable Draft.
16 Inch Truck. 1 7/16 Inch Steel Bearings.

Fig. 1848

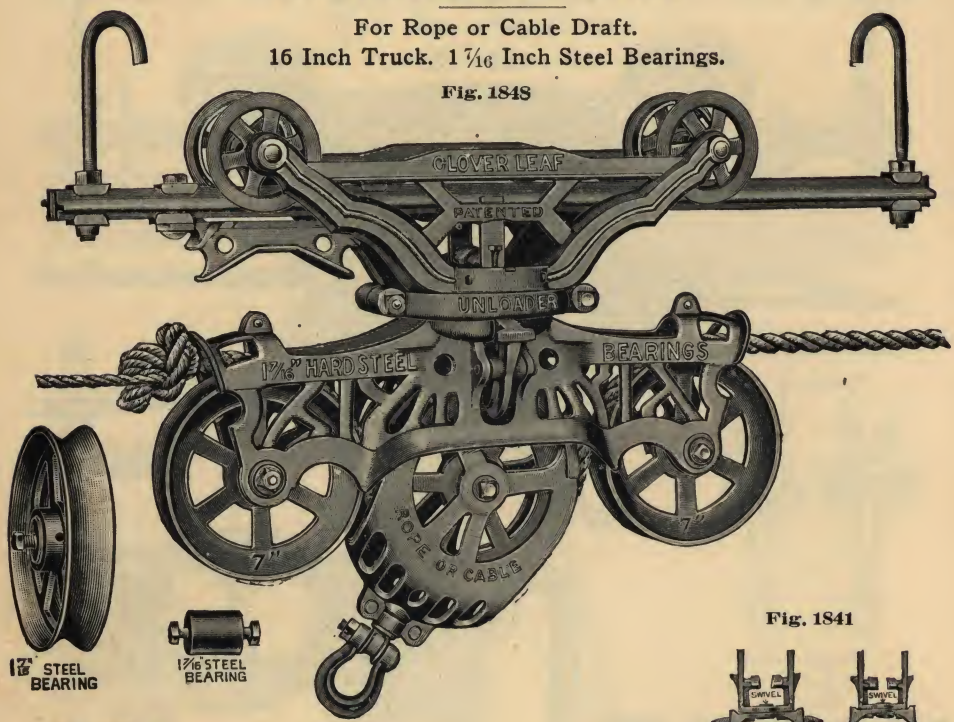
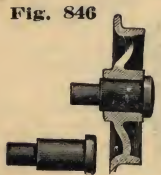
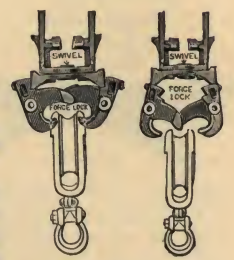


Fig. 846



Track Wheel and 7/8 in. Turned Steel Axle.

Fig. 1841



Locking Device.

Fig. 1848 represents the Clover Leaf Unloader as built for using rope or cable for draft rope.

The machine is made of the best annealed malleable iron, thoroughly braced, which insures strength sufficient to withstand the most severe usage. The rope sheaves are 7 inch in diameter with 1 7/16 inch turned steel bearings. This style of bearing will give more service and is easier to operate than any other style of sheave. The fact that you can use rope or cable for draft is a special feature used only on the Myers line of Unloaders and enables the farmer to use either style he may desire.

The Unloader is made with a large open mouth, swinging fork pulley and double force lock, which engages the frame of the fork pulley on both sides, allowing the load to swing clear, avoiding strain.

Fig. 1841. Shows Locking Device.

PRICE LIST, Represented by Fig. 1848.

No. 124, Myers Clover Leaf Unloader for D. S. Track, rope or cable draft, 7 inch sheave, 1 7/16 inch steel bearings. List.....*(Pyold)*..**$10.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Clover Leaf Unloader for Wood Track.

PATENTED.

SWIVEL AND REVERSIBLE.

With Seven Eighth Inch Axles and Oil Openings.

Fig. 852

Track Wheel and Turned Steel Axle.

Fig. 1032

Fig. 1037

Rope Sheave. Notice long hub and large bearing.

Fig. 986

Has Swinging Fork Pulley—a Great Advantage in Drawing Hay into a Mow when Filled Near the Roof.

Fig. 848

Bolt and Pipe Bushing for Rope Sheave.

Fork Pulley. List. **$1.25** each.

The above illustration represents the Clover Leaf Unloader as made for wood track. This carrier is fitted with a wide open mouth to receive the fork pulley. The rope sheaves and track wheels are all fitted with large turned bearings. The machine is both swivel and reversible combined in one machine. By this device the machine can be reversed by reversing the swivel or by drawing the rope through from end to end. It fills all the requirements and enables the dealer to supply all customers with this style of machine.

PRICE LIST.

No. 120, Myers Clover Leaf Unloader for Wood Track, rope draft. List.....(*Grainer*).. **$8.75**
No. 176, Myers Clover Leaf Unloader for Wood Track, rope or cable draft, 7 inch sheave, $1\frac{7}{16}$ inch steel bearings. List .....(*Pyrola*).. **10.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Faultless Right Angle Sling Elevator.

PATENTED.

FOR DOUBLE STEEL TRACK.

The Machine That Deposits the Load in the Mow in the Right Position Without the Use of Right Angle Pulleys.

Fig. 1673

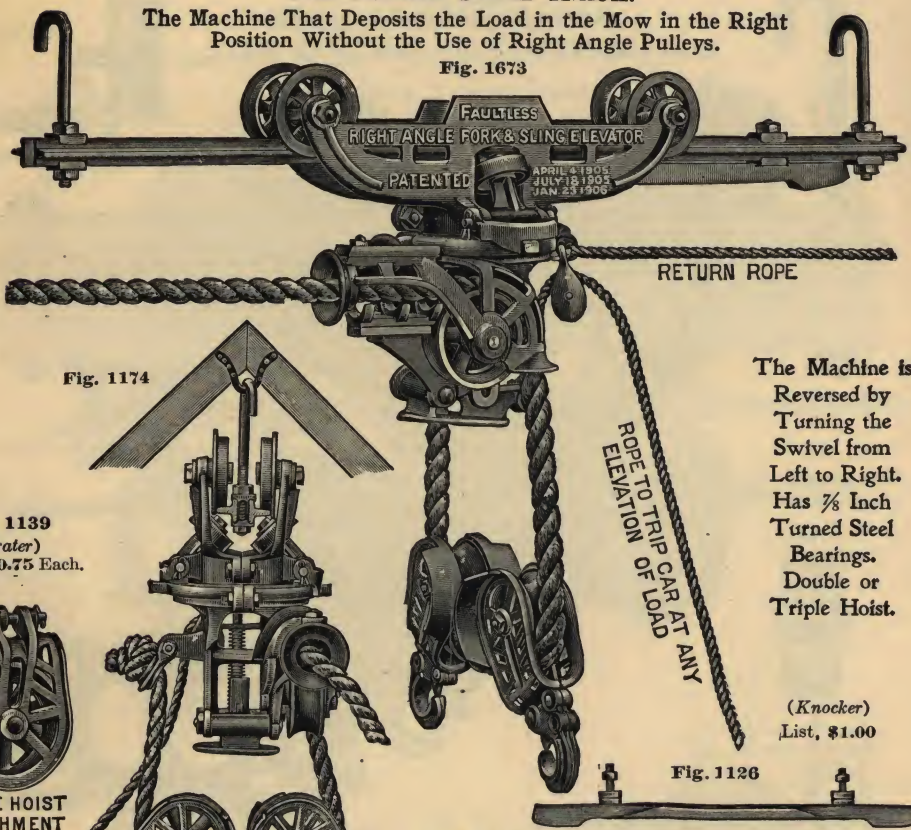


Fig. 1174

Fig. 1139
(*Krater*)
List, $0.75 Each.

TRIPLE HOIST ATTACHMENT

SHOWING CROSS SECTION PULLEYS

The Machine is Reversed by Turning the Swivel from Left to Right. Has ⅞ Inch Turned Steel Bearings. Double or Triple Hoist.

(*Knocker*)
List, $1.00

Fig. 1126

Fig. 1126 illustrates the knocker used on the Faultless Right Angle Fork and Sling Elevator. This knocker is 2 feet in length, forming a bridge or truss to the track at the point on which the carrier rests in elevating the load. This is why we do not HAVE to use an eight wheel truck, to which there are many objections, we having abandoned the first eight wheel sling car ever put on the market.

Figs. 1673 and 1174 illustrate the Faultless Right Angle Fork and Sling Elevator, made entirely of malleable iron, with a truck operating on an 18 inch wheel base, is very heavy and of sufficient strength to withstand the ordinary usage to which such machines are subjected. The machine is so arranged that it elevates the load at right angles with the track, with the result that when the load is discharged in the mow, it lays parallel with the load on the wagon, a feature not accomplished by sling carriers put out by any other manufacturer, unless they use special right angle pulleys which add at least one half horse power to the draft.

The ordinary sling carrier is constructed to hold a certain weight of load. If by chance the operator overloads the carrier, the result is that the rope slips through the lock, causing it to wear. This has been entirely overcome on the Right Angle Fork and Sling Elevator, as it is so arranged that the tension of the rope lock is regulated entirely by the weight of the load. In other words, the heavier the load, the greater the tension on the rope lock. The result is that it is impossible for the rope to slip through the lock; hence no chafing of the rope. The lock adjusts itself to any size rope, ¾ to 1 inch.

The Right Angle Fork and Sling Elevator operates automatically, and is tripped by the sling pulley striking a plate immediately under the carrier. It is also arranged with a separate trip rope (shown in cut), by the use of which the load may be carried into the mow at any elevation desired without drawing entirely to top of the barn.

The Right Angle Fork and Sling Elevator is adapted to be used in connection with slings, or with one or two ordinary hay forks as desired.

PRICE LIST.

No. 72, Faultless Right Angle Sling Elevator for D. S. Track, rope draft. List.....(*Putty*).. **$15.00**
No. 73, Faultless Right Angle Sling Elevator for D. S. Track, rope draft, triple hoist. List (*Putup*).. **15.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Faultless Unloader.

PATENTED.

SWIVEL AND REVERSIBLE.

For Double Steel Track.
16 Inch Truck.

Fig. 1656

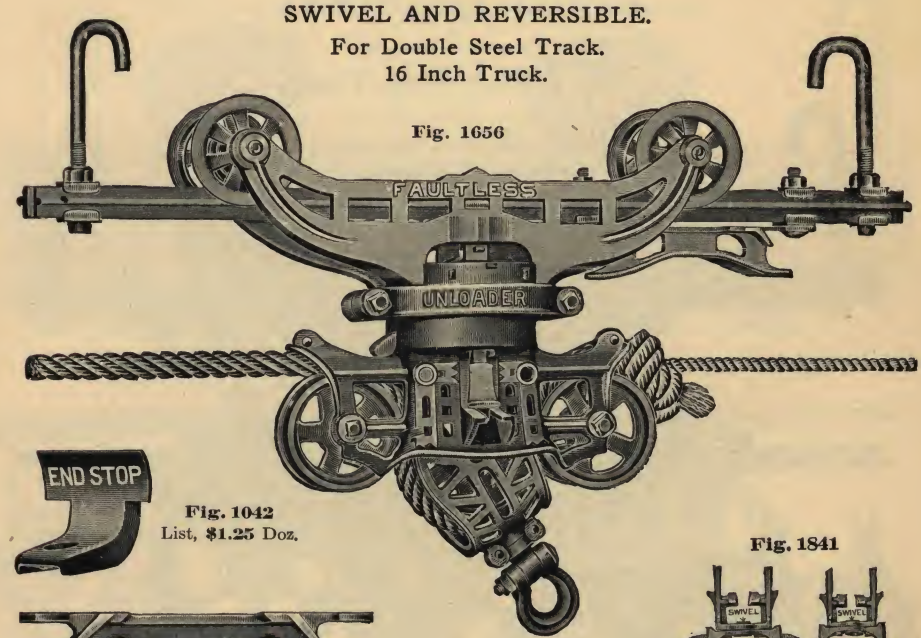
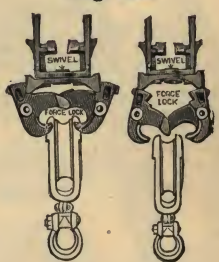


Fig. 1042
List, **$1.25** Doz.

Knocker.

Fig. 1841



Locking Device.

Fig. 987

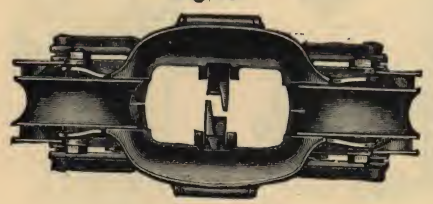
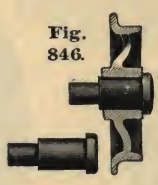


Fig. 846.



Track Wheel and ⅞ Inch Turned Steel Axle.

Fork Pulley
List,
$1.25
each.

Fig. 1656 represents the new Faultless Unloader made of malleable iron throughout. Is heavy and substantially made. It is fitted with wide open mouth to receive the fork pulley when approaching in any direction. Also has swinging fork pulley, which relieves the carrier from all strain when drawing hay over a high beam or into a well filled mow.

The lock is composed of three parts, and has no springs. The locking device grasps the fork pulley on either side and permits it to swing free. See Fig. 1841.

Fig. 987 is a bottom view of this carrier, illustrating the wide open mouth.

PRICE LIST, Represented by Fig. 1656.

No. 131, Myers Faultless Unloader, for D. S. Track, rope draft. List.....(*Pyrone*)..**$8.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Faultless Unloader.

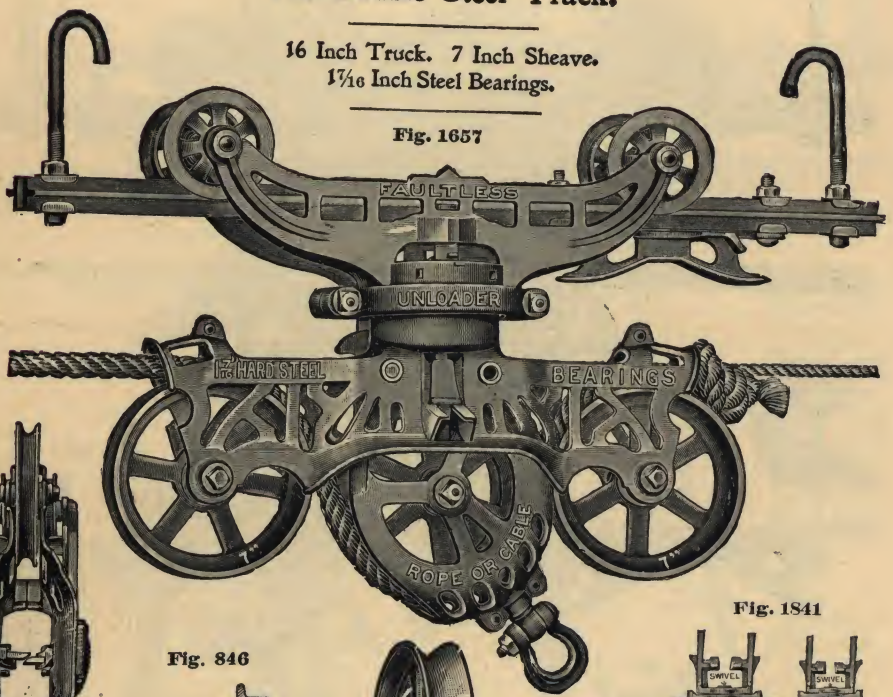
Rope or Cable Draft.

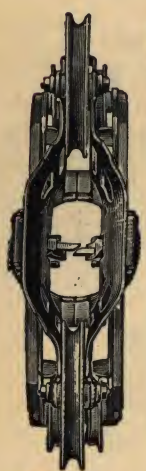
PATENTED.

For Double Steel Track.

16 Inch Truck. 7 Inch Sheave.
1 7/16 Inch Steel Bearings.

Fig. 1657





Showing Large Mouth.

Fig. 846

Track Wheel and Turned Steel Axle.

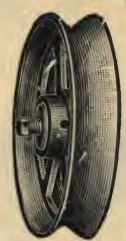
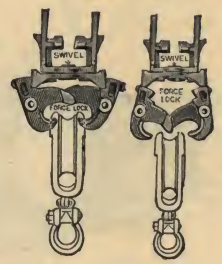


Fig. 1841



Locking Device.

Fig. 1657 represents the Myers Faultless Unloader as built for double steel track. Is made entirely of malleable iron. Has large open mouth and swinging fork pulley, which permits the same to register under the most unfavorable conditions. The lock is made of two parts and is a positive force lock, see Fig. 1841, engaging the fork pulley frame on both sides. The rope sheaves are 7 inch in diameter, fitted with 1 7/16 inch hard turned steel bearings. These bearings are a special improvement on hay carriers and not used on those made by any other factory. They are not only very long lived, but are lighter draft. The groove in the rope sheave is adapted to carry either a 7/8 inch manila rope or a 3/8 inch cable.

PRICE LIST, Represented by Fig. 1657.

No. 134, Myers Faultless Unloader for D. S. Track, rope or cable draft, 7 inch sheave, 1 7/16 inch hard steel bearings. List.....(*Pyrope*)..**$10.00**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Haymaker Unloader for Wood Track.

PATENTED.

SWIVEL AND REVERSIBLE.

With Seven Eighths Inch Axles and Oil Openings.

Fig. 1041

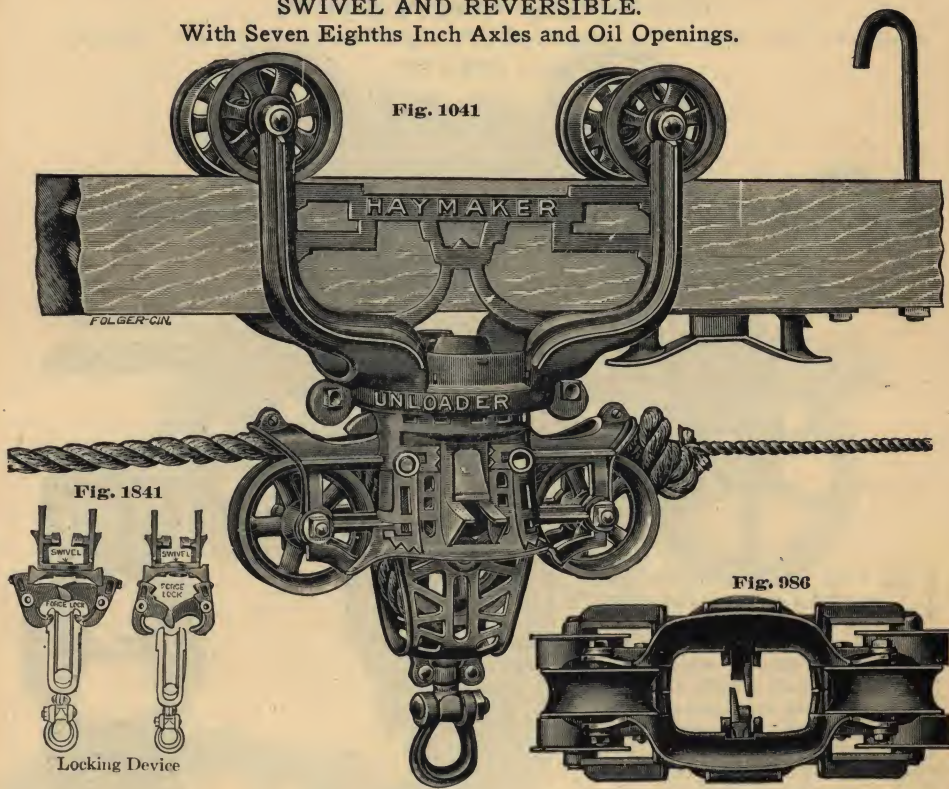


Fig. 1841

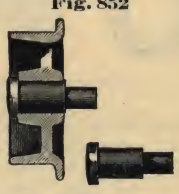
Locking Device

Fig. 986

Fig. 1037

Rope Sheave. Has longer hub than any other machine.

Fig. 852



Track Wheel and Turned Steel Axle.

Fork Pulley List. **$1.25** each.

Has Swinging Fork Pulley—a Great Advantage in Drawing Hay into a Mow when Filled to Near the Roof.

The above illustration represents the Haymaker Unloader as made for wood track. This car is fitted with a wide open mouth to receive the fork pulley. The rope sheaves and track wheels are all fitted with large turned bearings. The machine is both swivel and reversible combined in the one. By this device the machine can be reversed by reversing the swivel or by drawing the rope through from end to end. It fills all the requirements and enables the dealer to supply all customers with one style of machine.

PRICE LIST.

No. 150, Myers Haymaker Unloader for Wood Track, rope draft. List.....(*Quack*).. **$8.75**

No. 186, Myers Haymaker Unloader for Wood Track, rope or cable draft, 7 inch sheave, $1\frac{7}{8}$ inch steel bearings. List.....(*Quad*).. **10.00**

The Myers Unloader for Cable or Rod Track.

With Patented Swinging Knocker.

Fig. 1043

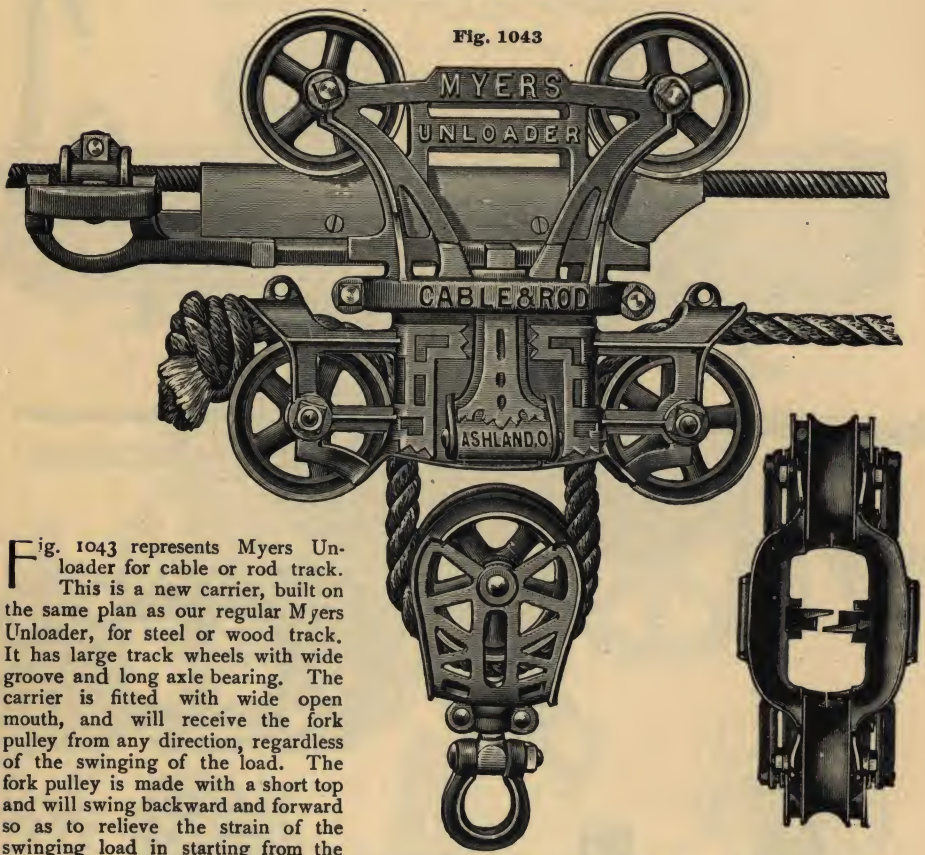


Fig. 1043 represents Myers Unloader for cable or rod track. This is a new carrier, built on the same plan as our regular Myers Unloader, for steel or wood track. It has large track wheels with wide groove and long axle bearing. The carrier is fitted with wide open mouth, and will receive the fork pulley from any direction, regardless of the swinging of the load. The fork pulley is made with a short top and will swing backward and forward so as to relieve the strain of the swinging load in starting from the knocker. The carrier is fitted with our patented double lock, which engages the knocker on either side.

The KNOCKER is one of the special features of this machine. It is so arranged that it swings loose on the track, and stands immediately under the cable, under any and all circumstances. It is held to the cable by means of a steel sleeve through which the cable passes. The sleeve is attached to the knocker by means of two bolts, and can be removed at any time without taking down the cable. The knocker is located at any desired point on the cable by means of an ordinary cable clamp.

Fig. 1044 (*Habitat*) List, $1.25

Fig. 1044 represents an enlarged view of the swinging knocker or stop block as used on the Cable Unloader. This knocker can be detached from the track without dismounting the cable.

PRICE LIST, Represented by Fig. 1043.

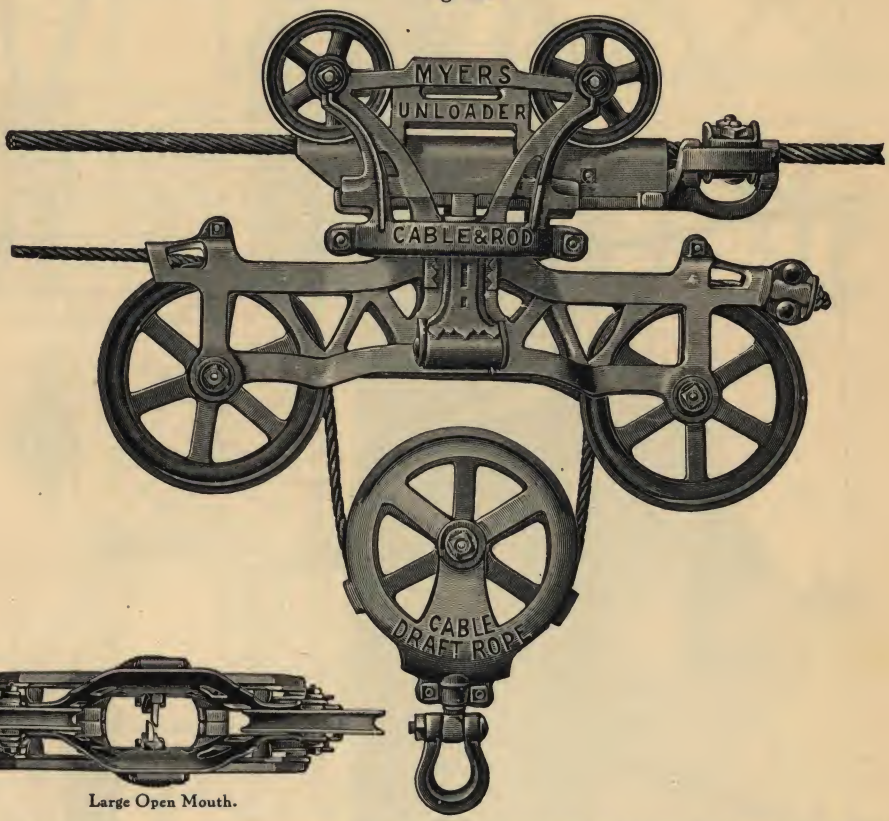
No. 165, Myers Unloader for Cable or Rod Track, rope draft. List.....(*Habited*)..$8.75

The Myers Unloader for Cable or Rod Track.

With Patented Swinging Knocker.

For Use with Rope or Cable Draft. 7 inch Sheaves. 1 7/16 inch Steel Bearings.

Fig. 1298



Large Open Mouth.

Fig. 1298 represents the Myers Unloader for cable or rod track, as built with 7 inch rope sheaves, for use with ⅜ inch flexible wire rope or a ¾ inch or ⅞ inch manila rope. It has been found by actual practice that a ⅜ inch wire rope has many advantages over the ordinary manila rope, the wire rope being much lighter and stronger, and more easily handled, and will wear three times as long, the original cost being slightly more.

This carrier is our regular Myers Cable Unloader, fitted with special pulleys, suited for using either manila rope or cable.

Has large open mouth and swinging fork pulley.

Fig. 1044 List, (*Habitat*). **$1.25**

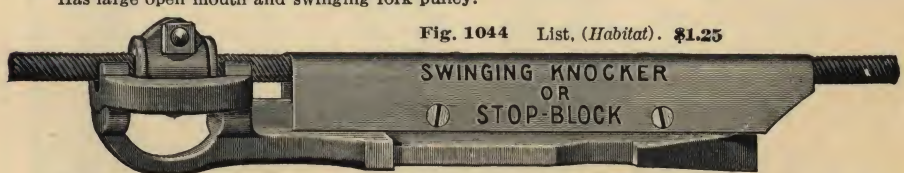


Fig. 1044 represents an enlarged view of the swinging knocker or stop block as used on the Cable Unloader. This knocker can be detached from the track without dismounting the cable.

PRICE LIST, Represented by Fig. 1298.

No. 171, Myers Unloader for Cable or Rod Track, rope or cable draft, 7 inch sheave, 1 7/16 inch plain bearings. List.....(*Quahog*)..**$10 00**

Myers Cable Unloader

for Stacking in the Field.

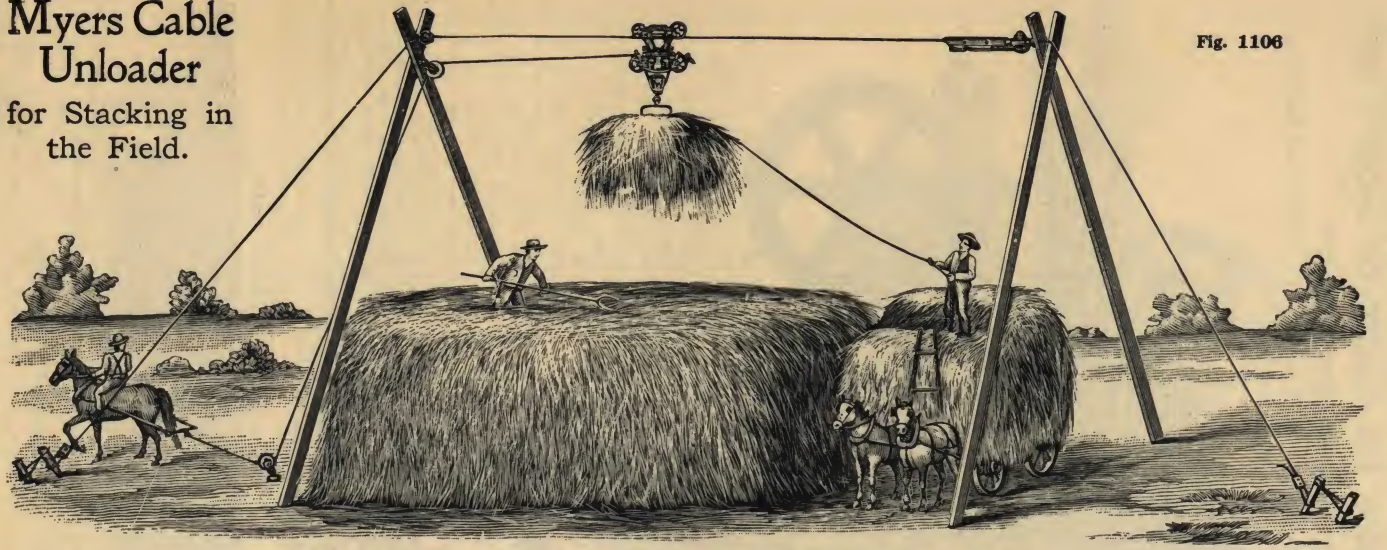


Fig. 1106

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Material Required for a Cable Outfit for a 50 Foot Stack:

One cable unloader.
One hay fork.
150 feet ½ or ⅝ inch galvanized cable.
Two single cable clamps, Fig. 431.
Two double cable clamps, Fig. 432.
Two ⅜ x 10 inch carriage bolts for fastening poles together.
130 feet ¾ inch manila rope.
Two pulleys.
Four poles 4 x 4 inches x 30 feet long.

Galvanized Steel Strand.

Is composed of seven No. 8 wires, is ½ inch diameter; weight, 52 pounds per 100 feet; breaking strain, 8320 pounds.

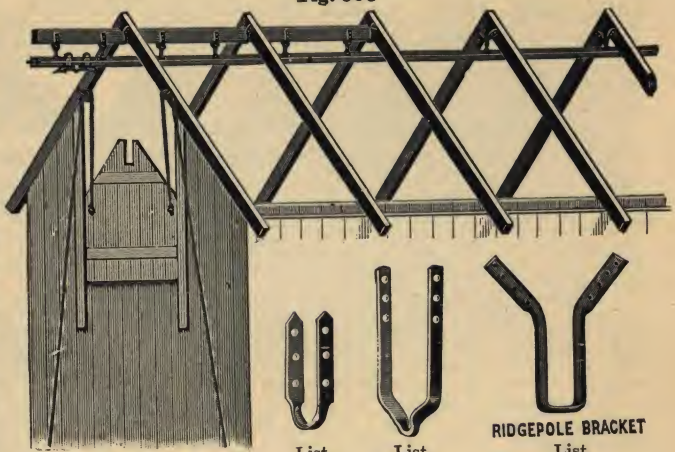
Cable Clamps.

Fig. 431
List, **$3.75** Doz.

Fig. 432. List, **$5.00** Doz.

Illustrating Manner in which Ridge Pole Should be Placed to Extend Track Beyond the End of the Barn.

Fig. 906



Size of Ridge Pole, 4 x 6 inches x 10 feet.

List, **$1.25** Doz.

List, **$2.50** Doz.

List, **$2.50** Doz.

Fig. 1197

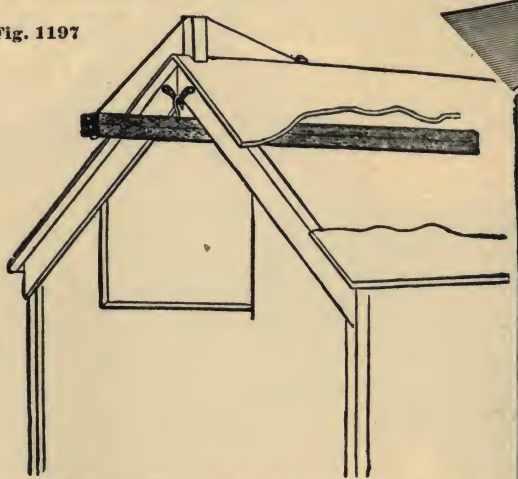


Fig. 263

Showing How Hay is Taken in at End of Hay Barn, and How to Hang Track.

Fig. 263 illustrates how a hay carrier can be operated in a barn, taking in the hay at the gable end, by allowing the track to extend out of the barn 3 feet. Must be properly supported.

Illustrating How Track Should be Placed in Barn, Also Rope Stop, and How Pulley Should be Placed.

Fig. 430

Place pulley to draw the carrier back into the mow directly under and in line with track, and not as seen in cut. Do not allow steel track hanging hooks to project below casting under track through which they are screwed, as they will interfere with the carrier.

This cut, Fig. 430, shows how steel track should be put up and how rope is tied from one rafter to the other close under the track to make stop for carrier at end of barn. Also shows how rafter brackets are placed.

DIRECTIONS FOR ERECTING MYERS PATENT STEEL TRACK.—Scaffold by placing rope from rafter to rafter, say 6 feet from ridge pole or peak and about 10 feet apart. Then place extension ladder across the ropes with board to stand on. Now nail one rafter bracket at each end of barn and draw a line from one end to the other and stretch tight. Then nail all rafter brackets even with this line. You are now ready to put up the track, which can be done in sections. Hoist near to rafter brackets by ropes. Then place hanging hook over rafter bracket and finish by putting in bolt.

Material Required for a Steel Track Outfit for Different Length Barns.

FOR A 40 FOOT BARN.—One Hay Unloader. 36 feet Steel Track. 19 Hanging Hooks. 19 Rafter Brackets. 5 Knot Passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 110 feet ¾ inch Manila Rope. 50 feet ⅜ inch Check Rope. 40 feet ⅜ inch Reverse Rope.

FOR A 50 FOOT BARN.—One Hay Unloader. 48 feet Steel Track. 25 Hanging Hooks. 25 Rafter Brackets. 5 Knot Passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 130 feet ¾ inch Manila Rope. 55 feet ⅜ inch Check Rope. 50 feet ⅜ inch Reverse Rope.

FOR A 60 FOOT BARN.—One Hay Unloader. 54 feet Steel Track. 28 Hanging Hooks. 28 Rafter Brackets. 5 Knot Passing Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 160 feet ¾ inch Manila Rope. 60 feet ⅜ inch Check Rope. 60 feet ⅜ inch Reverse Rope.

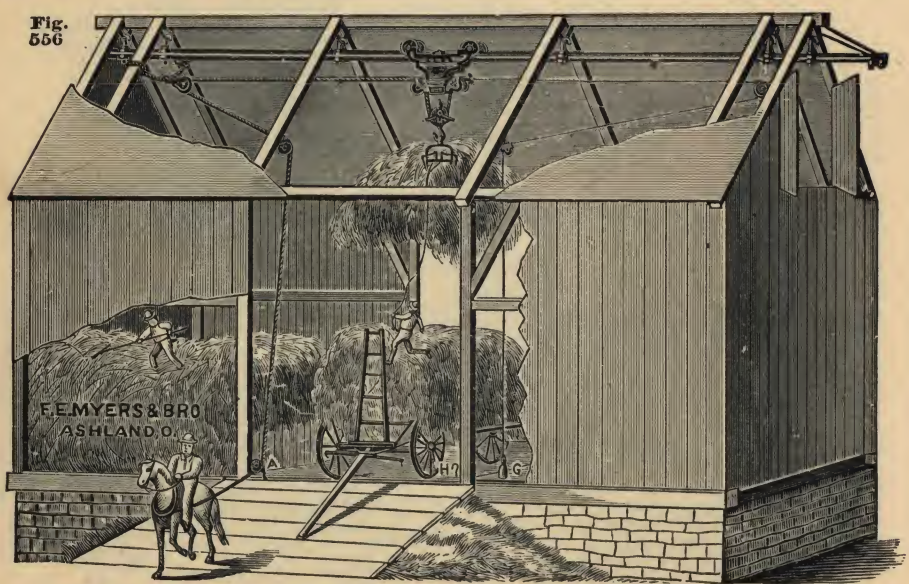
FOR A 70 FOOT BARN.—Hay Unloader. 66 feet of Track. 34 Hanging Hooks. 3½ lbs. Bracket Nails. 5 Fig. 1120 Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 190 feet ¾ inch Draft Rope. 70 feet ⅜ inch Check Rope. 70 feet ⅜ inch Reverse Rope.

FOR AN 80 FOOT BARN.—Hay Unloader. 78 feet of Track. 40 Hanging Hooks. 40 Rafter Brackets. 4 lbs. Bracket Nails. 5 Fig. 1120 Pulleys. 1 Fork or 3 Slings. 6 Floor Hooks. 210 feet ¾ inch Draft Rope. 80 feet ⅜ inch Check Rope. 80 feet ⅜ inch Reverse Rope.

Different lengths of barns will use track, hanging hooks and rope in same ratio as above.

If required to take hay in at end of barn and have rope pass down at far end to horse, same amount of draft rope. If draft rope be returned to same end of barn and then down, this requires about one fourth more draft rope.

Fig. 556



HOW TO REVERSE CARRIER.—Set fork in hay. Tie ends of rope together, to which horse and weight are attached. Pull on small rope until knot comes to the floor, then untie ropes. Fasten weight G on small rope, change pulley A to floor hook H. This reverses carrier for opposite direction without leaving the floor or climbing up. Use all knot passing pulleys. For taking in hay at end of barn use V shaped brace for track support, as shown in cut.

Fig. 623

Fig. 318 ATTACHING DRAFT ROPE.

Fig. 316 PLACING THE SLINGS.

SLING DISCHARGING LOAD.

Fig. 1180

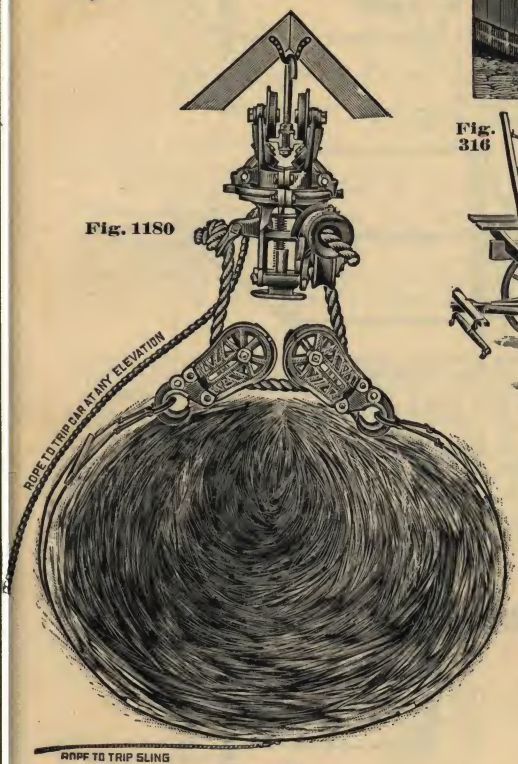
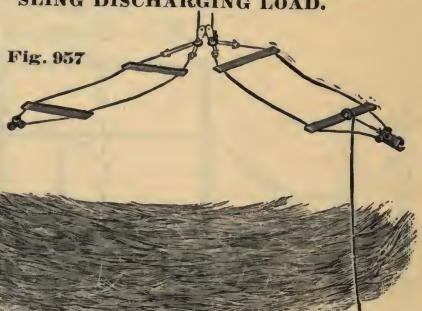


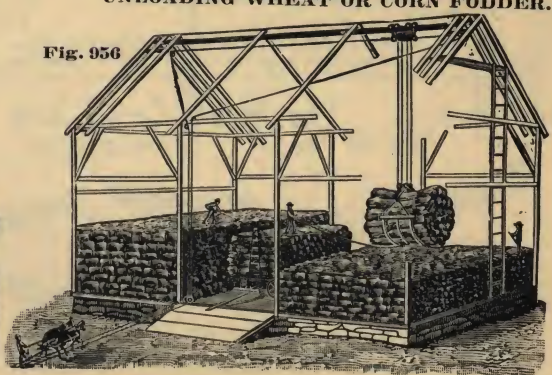
Fig. 957



UNLOADING WHEAT OR CORN FODDER.

Fig. 955

Fig. 956



Myers Center Trip Adjustable Sling.

All cross bars are made of best seasoned ash to which ropes are attached by a heavy hook bolt (V).

Fig. 620 (*Racy*)

List: 4 foot Stick, **$4.80** each.

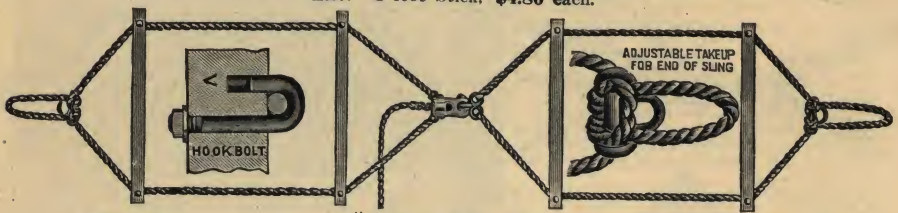


Fig. 620 represents our Myers Center Trip Adjustable Sling, with 4 or 5 foot cross bars.

Fig. 1728 (*Tattle*)

List, 5 foot Stick, 3 Ropes, **$6.00** each.

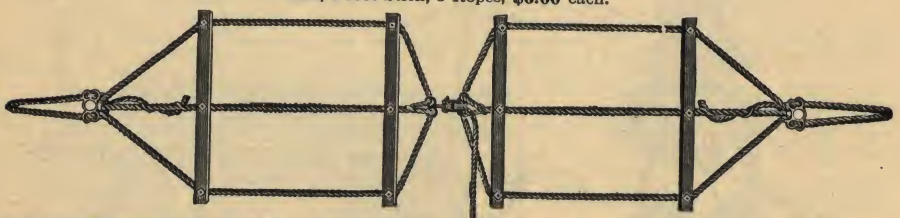


Fig. 1728 illustrates the New Myers Special Center Trip Adjustable Three Rope Sling with five foot sticks. This sling is well manufactured from a special lay ½ inch rope, heavy hardwood cross bars, adjustable end rings, and center trip lock. All three ropes run through from the end ring to the lock and are attached to the cross bars by hook bolts. End rings are easily adjusted for different lengths of hay racks.

Utah Center Trip Adjustable Sling.

Fig. 621
(*Rap*)
List, **$7.50**
each.

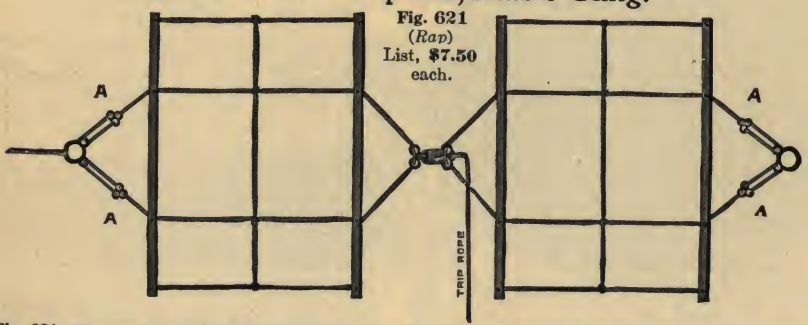
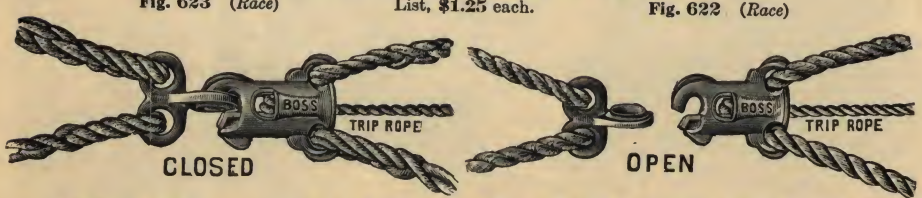


Fig. 621 represents our Utah Center Trip Adjustable Sling. Instead of a 4 foot cross bar we use a 6 foot, which extends beyond the side ropes 18 inches on either side, to which we attach an additional rope and also a cross rope attached to each of the main ropes, as represented in the cut.

The Myers Center Trip Sling Lock.

Fig. 623 (*Race*) List, **$1.25** each. **Fig. 622** (*Race*)



The trip or lock on a hay sling is its most vital point, and the only part that is likely to give trouble. The lock is made of malleable iron in one size only; has but three pieces; is light, strong and durable, well made and guaranteed.

Figs. 622 and 623 illustrate the lock both open and closed.

The Myers Double Lock Adjustable Hay Sling.

6 foot. List, **$10.50** each. (*Paling.*)

Fig. 1308

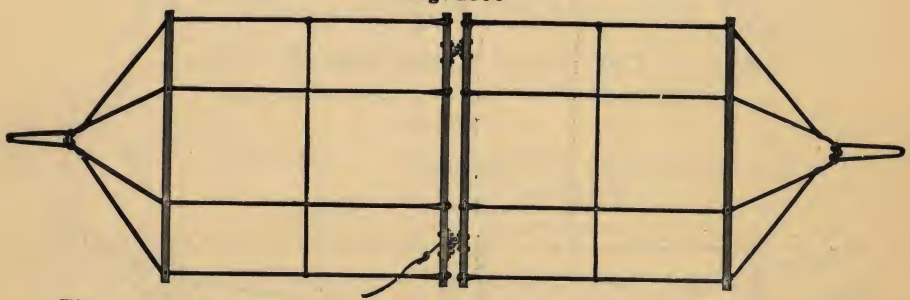


Fig. 1308 represents our new Myers Double Lock Sling, as made for handling hay or bundles of grain and fodder from the wagon.

The sling is a new design, having two connections between the two halves of the sling, instead of the one center lock as generally used. The construction of this double lock device is such that we use a hook and eye at the one end of the sling stick, and a lock at the other end, thus making two separate connections, adding great strength, and causing the load to be carried without drooping at each side. The sling is connected and locked with one motion.

The Myers Cable Ground Sling.

Something Entirely New.

8 foot Stick, List, **$22.50** each. (*Palish.*)
10 foot Stick, List, **26.75** each. (*Point.*)

Fig. 1309

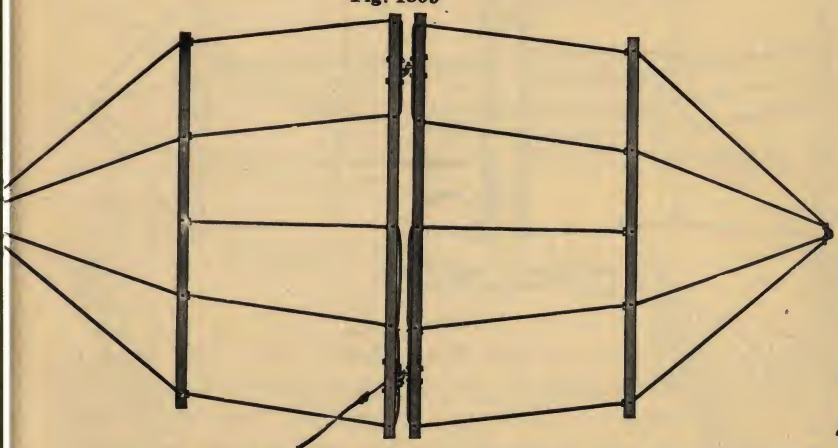


Fig. 1311

Used for Stacking with a Pole Derrick from Bull Rake.

Fig. 1309 represents the Myers Cable Ground Sling, 16 feet long, constructed of flexible wire cable instead of rope as ordinarily used for sling purposes.

This construction makes the strongest and neatest proposition for the purpose ever offered to the trade. The cables are light and very flexible, and naturally have three times the strength of rope and are much less liable to wear.

The sling is fitted with our double lock device, which engages the separate halves of the sling at either end instead of the center lock, as formerly used for this purpose. They are easily tripped and do not tangle.

The Myers Double Lock Adjustable Chain Sling.

Made of Galvanized Chain instead of Rope.

Fig. 1589

5 Foot. List, **$9.00** each (*Prosy*).

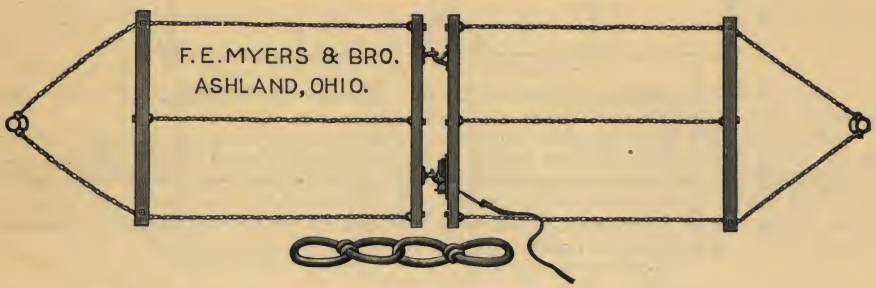
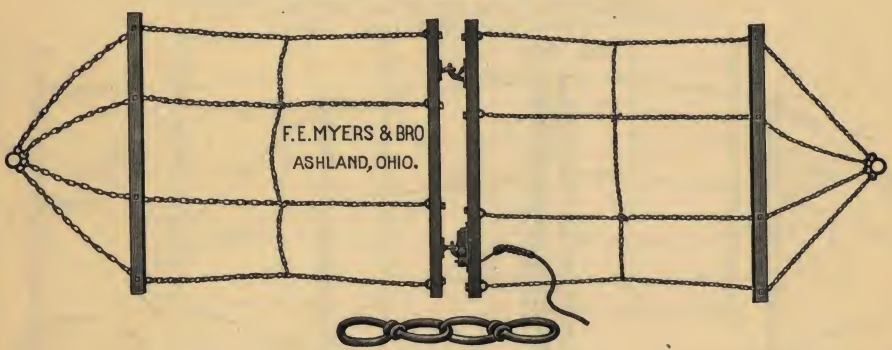


Fig. 1590

6 Foot. List, **$12.00** each (*Proud*).



Figs. 1589 and 1590 represent our new Myers Double Lock Chain Sling, as made for handling hay or bundles of grain and fodder from the wagon.

The sling is a new design made of No. 00 Brown Chain Galvanized, having two connections between the two halves of the sling, instead of the one center lock as generally used. The construction of this double lock device is such that we use a hook and eye at the one end of the sling stick, and a lock at the other end, thus making two separate connections, adding great strength, and causing the load to be carried without drooping at each side. The sling is connected and locked with one motion.

The Myers Handy Adjustable Sling.

With End Trip. Made with Two Ropes.

Can be Changed Into a Three Rope Sling by Adding the Center Rope.

Fig. 1695 (*Tackle*) List, **$2.25** each.

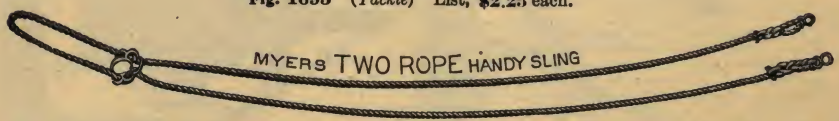


Fig. 1695 represents the Myers Handy Adjustable Rope Sling. Made of best quality ½ inch rope. Has adjustable takeup, by means of which the sling can be lengthened or shortened to suit the user. The adjustable takeup has center loop or ring to which a third rope can be attached, making a three rope sling like Fig. 1697.

Fig. 1696 (*Tacky*) List, **$0.75** each.

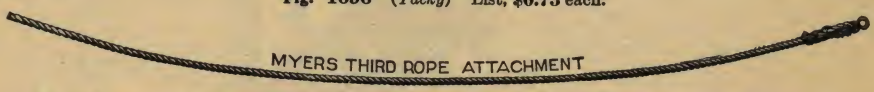


Fig. 1696 represents the third rope attachment to be used on Fig. 1695 to make a three rope sling. These are always sent out separately to be attached by the dealer.

Note: When three rope slings are ordered we ship a specified quantity of two rope slings and the same quantity of third rope attachments.

Fig. 1697 (*Taffy*) List, **$3.00** each.

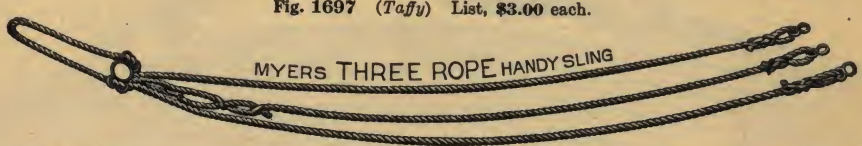


Fig. 1697 represents a three rope sling as made up with a two rope sling Fig. 1695 and a third rope attachment Fig. 1696. Always sent out separately.

Fig. 1699
(*Tagal*)
List, **$1.25**

Handy Sling Holder or Lock.

Made for Two or Three Rope Sling.

Fig. 1700

Fig. 1501

Attached direct to the hook on Self-Locking Sling Pulley, see Fig. 1501, or to the Hook on Parallel Sling Pulley, Fig. 1799. Pulling on Trip rope drops one end of sling, releasing the load.
Fig. 1699 shows trip lock closed.
Fig. 1700 shows position of lock open after sling has been tripped.

The Myers Universal Reversible Sling Pulley.

Can be Used with any Make of Hay Carrier Without a Change of Fork Pulley or Using a Registering Head.

Can be Used Either Side Up and Cannot be Misplaced in Attaching.

PATENTED.

Fig. 1055
(*Rad*)
Side or Edge View.

Fig. 1052
(*Rad*) List, **$3.75** each.
Top View.

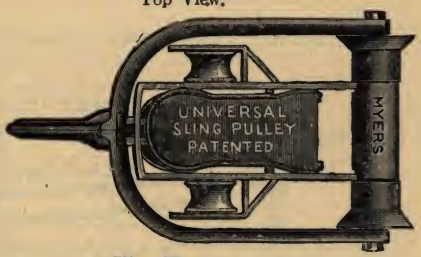
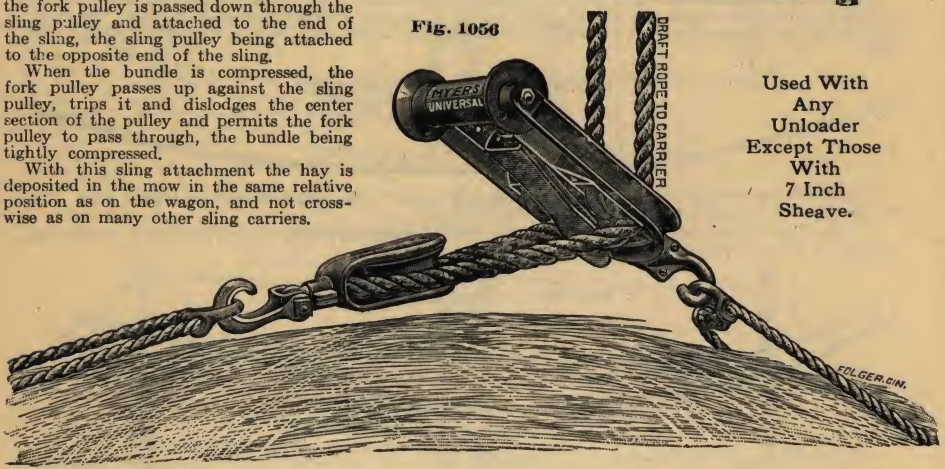


Fig. 1052 and Fig. 1056 represent the Myers Universal Reversible Sling Pulley. This pulley can be used with any hay carrier. It cannot be misplaced on the load, can be used either side up, and with any style of fork pulley. It will be noted from illustration, Fig. 1056, that the fork pulley is passed down through the sling pulley and attached to the end of the sling, the sling pulley being attached to the opposite end of the sling.

When the bundle is compressed, the fork pulley passes up against the sling pulley, trips it and dislodges the center section of the pulley and permits the fork pulley to pass through, the bundle being tightly compressed.

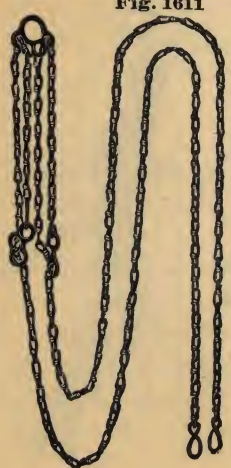
With this sling attachment the hay is deposited in the mow in the same relative position as on the wagon, and not crosswise as on many other sling carriers.

Fig. 1056



Used With Any Unloader Except Those With 7 Inch Sheave.

Fig. 1611



Handy Sling.

Fig. 1611 represents the Handy Chain Sling; Lock trips at end of sling instead of center.
Has adjustable take-up at end.

PRICE LIST.

Handy Chain Sling, Fig. 1611.....(*Psalm*)..**$3.00**
Handy Sling Holder or Lock, Fig. 1501.....(*Porta*).. **1.25**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Universal Reversible Sling Pulley.

Can be Used with Any Make of Hay Carrier Without a Change of Fork Pulley or Using a Registering Head.

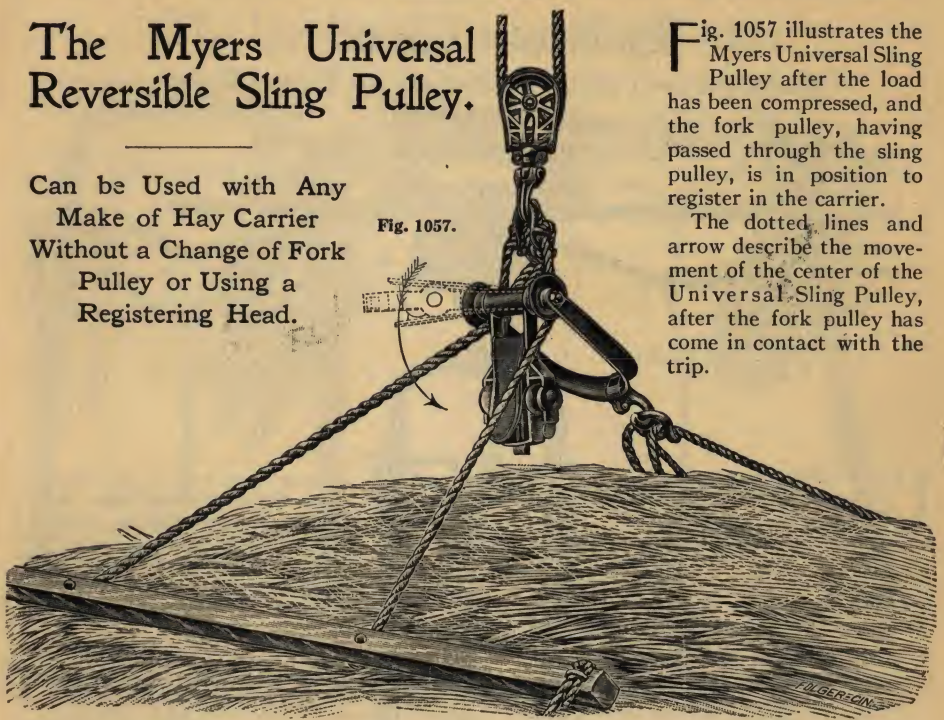


Fig. 1057.

Fig. 1057 illustrates the Myers Universal Sling Pulley after the load has been compressed, and the fork pulley, having passed through the sling pulley, is in position to register in the carrier.

The dotted lines and arrow describe the movement of the center of the Universal Sling Pulley, after the fork pulley has come in contact with the trip.

Self-Locking Sling Pulleys.

PATENTED MAY 15, 1885, AND AUGUST 19, 1890.

Registering Heads H, Furnished to Suit Any Carrier.

The following are the registering heads which we make for our self-locking sling pulleys, Fig. 806, to fit the different carriers named.

Fig. 806 (*Reland*)
List, **$3.75** each.

REGISTERING HEADS.

RH 1 Louden	**RH 2** Hall	**RH 3** Star	**RH 4** Leader	**RH 5** Church	**RH 6** Porter	**RH 7** Milwaukee Reversible	
RH 8 Milwaukee Swivel	**RH 9** Burbank's Eclipse	**RH 10** Ney and Superior	**RH 11** Oborn	**RH 12** Jordan	**RH 13** C., B. & Q.	**RH 14** Myers O. K.	**RH 15** Ashland
RH 16 Myers Combina'n	**RH 17** Ideal and Jumbo	**RH 18** Janesville Dead Lock	**RH 19** Hay Maker or Imperial	**RH 20** Porter's Swivel	**RH 21** Boyd	**RH 22** Diamond	**RH 23** New Diamond	**RH 24** Boyd Reversible

RH 26 W. & B. Acme 1st Pattern	**RH 27** W. & B. Acme Improved	**RH 28** Louden Senior	**RH 29** Porter Meadow King	**RH 30** All Unloaders with 7" Sheave	**RH 25 and H 276** All Unloaders With Small Fork Pulley

Fig. 806, Mammoth Self-Locking Sling Pulley, 7 inch sheaves.....(*Quiet*)..**$6.25**

All registering heads. List, each.....**$0.65**

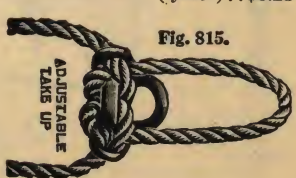


Fig. 815.

Adjustable Take Up for End of Sling.

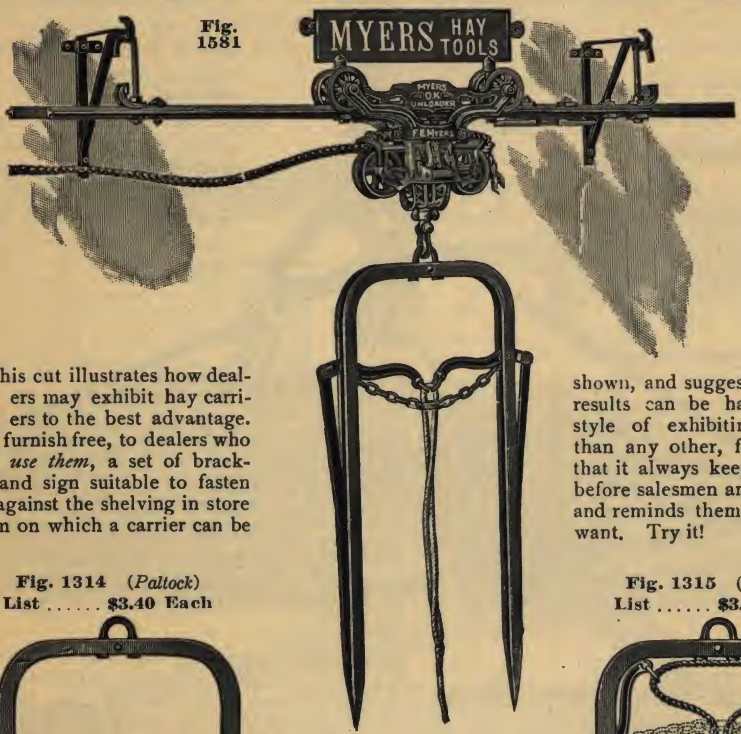
The illustration represents the Adjustable Take Up used on each end of the Myers Center Trip Adjustable Sling, by means of which the sling can be adjusted from 16 to 20 feet in length. The extra rope at end enables the user to find the sling readily.

List, each **$0.40**

Exhibition Carrier.

Showing How to Exhibit a Hay Carrier in Store Room

Fig. 1581



This cut illustrates how dealers may exhibit hay carriers to the best advantage. We furnish free, to dealers who *will use them*, a set of brackets and sign suitable to fasten up against the shelving in store room on which a carrier can be shown, and suggest that better results can be had from this style of exhibiting a carrier than any other, from the fact that it always keeps the goods before salesmen and customers, and reminds them of what they want. Try it!

Fig. 1314 (*Paltock*)
List ..... $3.40 Each

Fig. 1315 (*Paltock*)
List ..... $3.40 Each

Hay Forks.

The Myers Double Harpoon Hay Fork.

Heavy Spring Steel Frame.

No Cross Bar. Easy to Trip. Extra Large Capacity. The Best Harpoon Fork.

Figs. 1314 and 1315 represent a new Double Harpoon Hay Fork, built of open hearth Spring Steel, ¼ x 1¼ inch, making the strongest and stiffest double harpoon fork on the market.

It having no cross bar, the forcing of it into the hay starts the barbs to open when the fork is nearly loaded, thus compressing the bundle, and enabling the fork to take a larger load.

The levers are held in position by means of a spring; hence they never get loose or drop open in loading.

A special feature of this fork is the manner in which the trip rope is attached to the levers, which permits the fork to be tripped from any direction, no difference whether sidewise, edgewise, or at any angle. **SPECIAL AGENCY GIVEN ON THIS FORK.**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

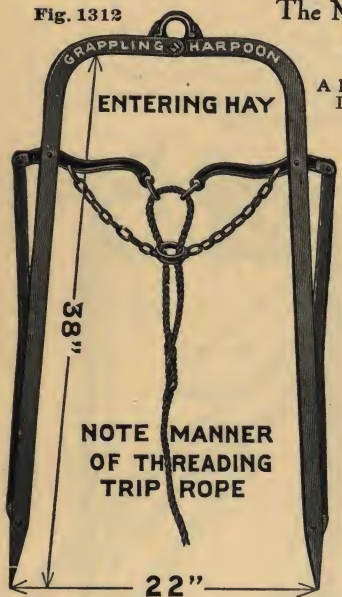
The Double Harpoon Hay Forks.

Fig. 1312

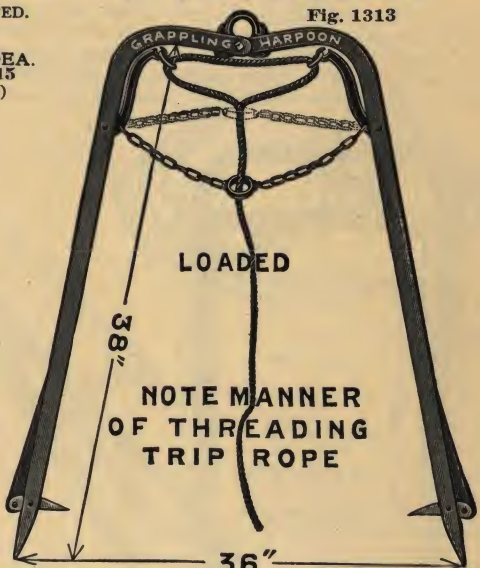
The Myers Patent Grappling Harpoon Hay Fork.

PATENTED.

Fig. 1313



A NEW IDEA.
List, **$4.15**
(*Palter*)



Figs. 1312 and 1313 represent the Myers Grappling Harpoon Hay Fork, which embodies all the features of the regular harpoon with the principal features of the Grapple Hay Fork.

This fork is constructed with a hinge in the head. This causes the fork to spread (in the act of penetrating the hay) from its natural width of 22 inches between the points of the tines (Fig. 1312) to 36 inches (Fig. 1313). This motion is reversed when the load is hoisted, causing the tines of the forks to be drawn together, which compresses the load and permits the handling of short hay.

Harris Double Harpoon Forks.

Cuts Show Relative Size.

Regular Double Harpoon.

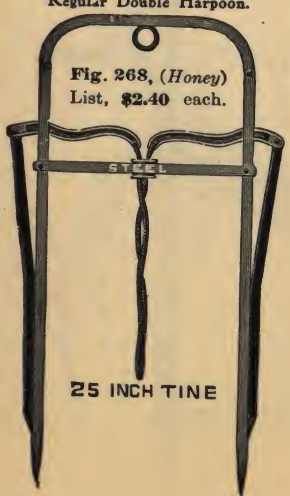


Fig. 268, (*Honey*)
List, **$2.40** each.

Extra Length.

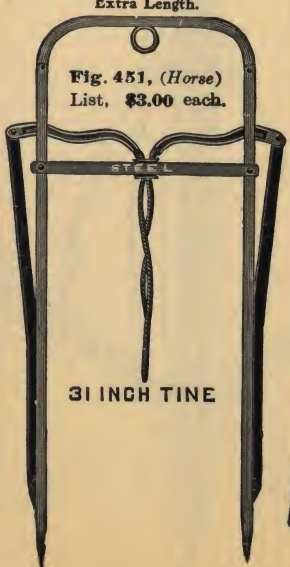


Fig. 451, (*Horse*)
List, **$3.00 each.**

Alfalfa (Extra Heavy).

Fig. 450,
(*Hive*)
List, **$3.50** each.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Hay Forks.

Myers Lock Lever Fork.

Our latest and best production in this line is the Myers Lock Lever Harpoon Fork. This fork is made of spring steel; sets with *one lever and locks either open or closed.* This fork, while it is not larger than the regular double harpoon (except in width), has 50 per cent. more capacity, owing to the cross bar being placed nearer the top, and gathers the grain or hay from the *end of point* and not two inches from bottom, as all old style forks do.

Fig. 670
Open.
(*Humane*)
19 Inches Wide.
List, **$5.60** each.

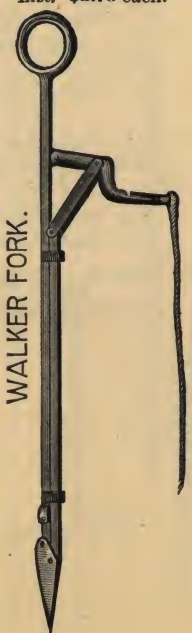
Fig. 671
Set.
(*Humane*)
List, **$5.60** each.

Fig. 773
Set.

Nellis.
(*Iron*)
List, **$4.50** each.

Fig. 774
Closed.

Walker.
Fig. 271 (*Jam*)
List, **$3.75** each.



The Myers Perfect Automatic Grapple Fork.

4 and 6 Tine.

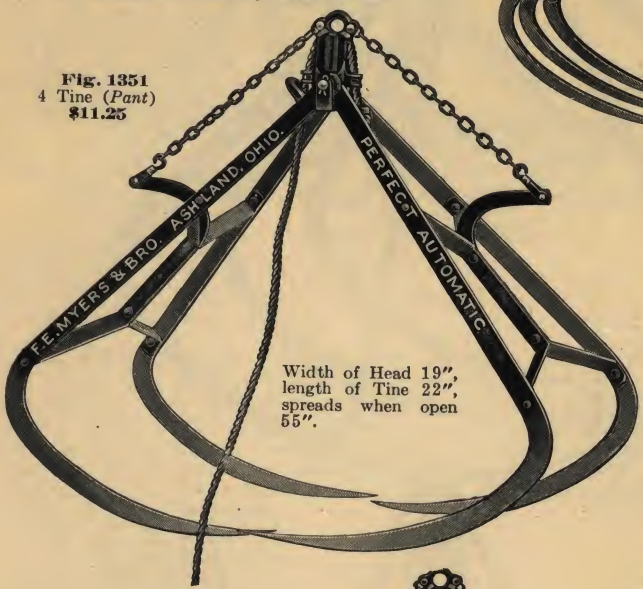
Closes and Locks Itself Before Returning to the Load.

Made of High Carbon Spring Steel. Trips Easily from any Direction.

Fig. 1438

6 Tine (*Panta*) **$13.00**

Fig. 1351
4 Tine (*Pant*)
$11.25



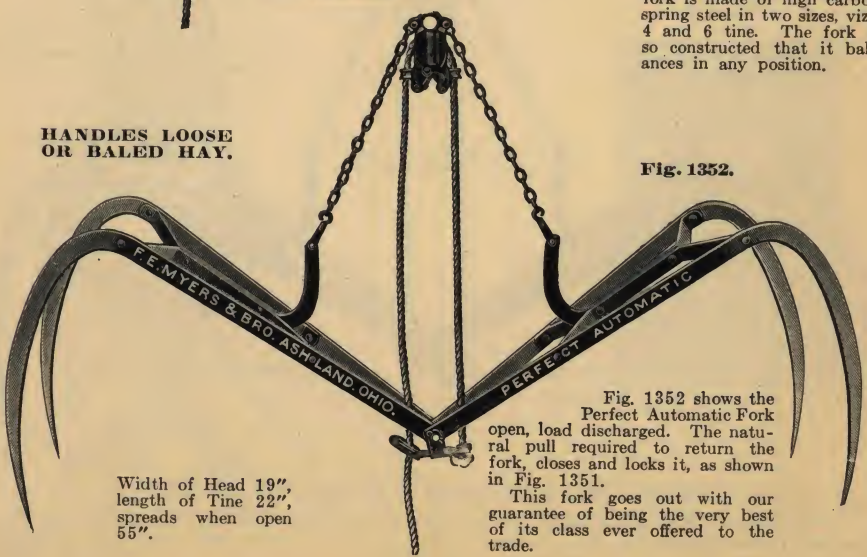
Width of Head 19″, length of Tine 22″, spreads when open 55″.

This fork is unlike any other inasmuch as it is not only balanced at all points, but in addition the natural pull on the trip rope closes the fork and locks it securely, thus returning it to the load all ready to enter the hay without any attention whatever from the operator as to setting the lock, etc. It is double braced throughout, making it very rigid and strong.

Figs. 1351, 1352 and 1438 illustrate the Myers Perfect Automatic Grapple Fork, both closed and open. This fork is made of high carbon spring steel in two sizes, viz., 4 and 6 tine. The fork is so constructed that it balances in any position.

HANDLES LOOSE OR BALED HAY.

Fig. 1352.



Width of Head 19″, length of Tine 22″, spreads when open 55″.

Fig. 1352 shows the Perfect Automatic Fork open, load discharged. The natural pull required to return the fork, closes and locks it, as shown in Fig. 1351.

This fork goes out with our guarantee of being the very best of its class ever offered to the trade.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

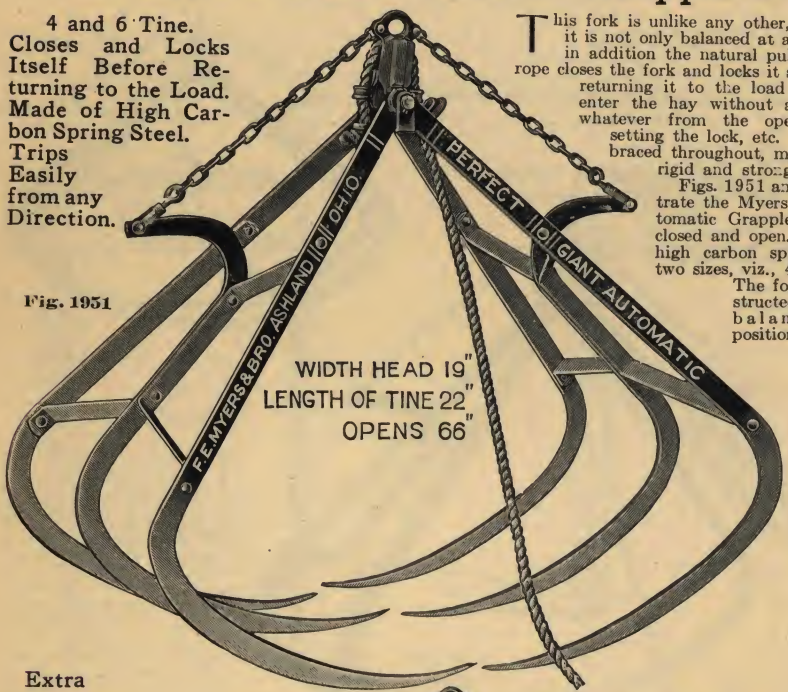
The Myers Giant Perfect Grapple Fork.

4 and 6 Tine. Closes and Locks Itself Before Returning to the Load. Made of High Carbon Spring Steel. Trips Easily from any Direction.

This fork is unlike any other, inasmuch as it is not only balanced at all points, but in addition the natural pull on the trip rope closes the fork and locks it securely, thus returning it to the load all ready to enter the hay without any attention whatever from the operator as to setting the lock, etc. It is double braced throughout, making it very rigid and strong.

Figs. 1951 and 1952 illustrate the Myers Perfect Automatic Grapple Fork, both closed and open. Is made of high carbon spring steel in two sizes, viz., 4 and 6 tine. The fork is so constructed that it balances in any position.

Fig. 1951

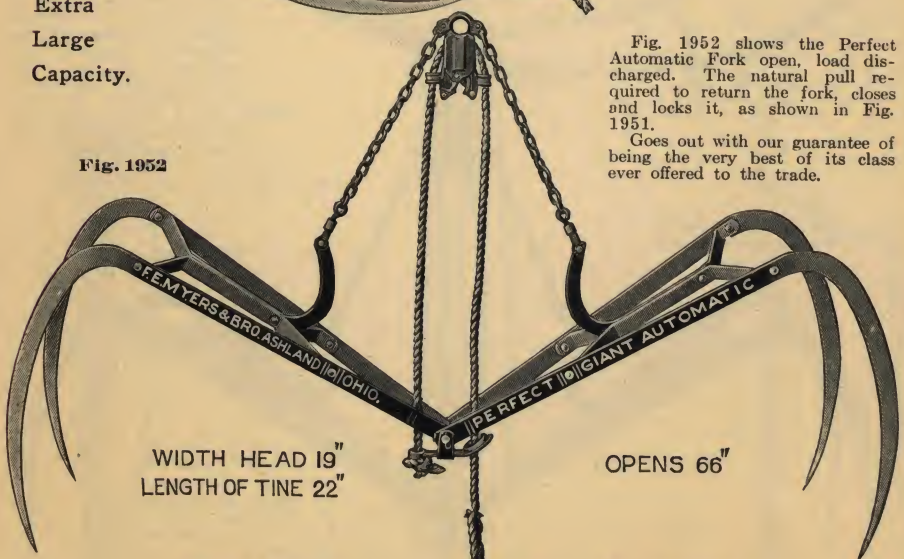


Extra Large Capacity.

Fig. 1952 shows the Perfect Automatic Fork open, load discharged. The natural pull required to return the fork, closes and locks it, as shown in Fig. 1951.

Goes out with our guarantee of being the very best of its class ever offered to the trade.

Fig. 1952



PRICE LIST, Represented by Figs. 1951 and 1952.

The Myers Giant Perfect Grapple Fork, width of Head 22", length of Tine 22½", spreads when open 65".

The Giant Perfect Grapple Fork, 4 Tine. Price each.....(*Puler*)..**$12.50**
The Giant Perfect Triple Grapple Fork, 6 Tine. Price each.....(*Puling*).. **14.50**

Jackson Pattern Derrick Fork.

Fig. 1392

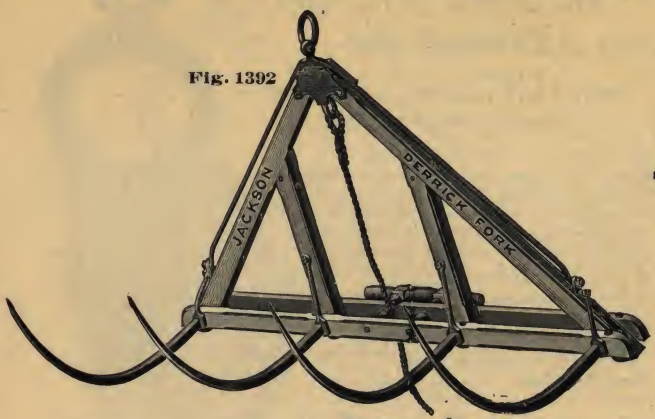
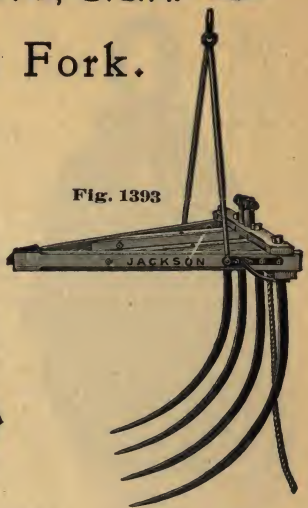


Fig. 1393



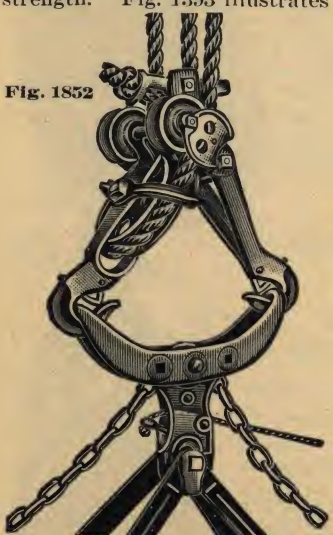
Made in Six Sizes:

3½	foot head.	List, each	(*Hope*)..	**$18.00**
4	foot head.	List, each	(*Hoper*)..	**18.75**
4½	foot head.	List, each	(*Hoped*)..	**19.50**
5	foot head.	List, each	(*Hopeing*)..	**23.25**
5½	foot head.	List, each	(*Hopper*)..	**24.00**
6	foot head.	List, each	(*Hoping*)..	**24.50**

The Jackson Pattern Fork is made in six sizes. The 4½ ft. and smaller have four tines each, and are designed for handling hay.

The 5 ft. fork and larger have six tines, and are designed for handling heading or straw. The weight ranges according to size from 40 to 70 pounds each. The tines are made of spring steel, and the material throughout is of the very best. The woodwork is neatly made, all riveted and bolted together so as to get the greatest possible strength. Fig. 1393 illustrates the fork after the load has been discharged.

Fig. 1852



Special Goods.

Fig. 1851

Fig. 1852. Parallel Bar or Clevis to attach any fork to sling car using regular Sling Pulleys or Self-Locking Pulleys. Price each ..... (*Thilk*).. **$0.85**

Fig. 1851, Outside End Pulley Bracket to carry ordinary pulley used in passing rope down at end of barn. Price each ..... (*Thill*).. **.75**

Pulleys.

The Myers O. K. Knot Passing Pulley.

With 1 Inch Loose Pin, 6 Inch Wood Sheave, and Swivel Eye.

Fig. 1120 (*Kail*) List, **$7.50** Doz.

Fig. 1121 (*Kage*) List, **$7.50** Doz.

Figs. 1120 and 1121 represent our Myers O. K. Knot Passing Pulley as made with a special heavy ribbed frame which follows the rim of the pulley down to a point opposite the axle. The frame is flanged out from the edge of the pulley so as to form an easy approach for the rope.

The frame is made in two separate halves riveted together. The axle is 1 ⅛ inches in diameter. The sheave is 6 inch hard maple dipped in hot oil.

Fig. 1121 represents the same pulley, showing an edge view.

Cast Frame Knot Passing Pulley.

With 1 Inch Loose Pin, 6 Inch Sheave and Swivel Eye.

Fig. 796 (*Kayak*) List, **$6.00** Doz.

Fig. 820 (*Kayaker*) List, **$6.50** Doz.

Fig. 796 represents our Cast Frame Knot Passing Pulley, frame heavily ribbed and extra strong; passes large knot or splice. 6 inch hard maple sheave dipped in hot oil.

Fig. 820 represents the same frame with 6 inch cast sheave. Sheaves are interchangeable.

Fig. 1178

Wood sheave for all pulleys.

State diameter and size hole wanted.

Wood Sheaves.
6 in. and smaller $2.00 per doz.
7 in. $4.00 per doz.
8 in. $6.40 per doz.

Iron Sheaves.
5½ in. and 6 in. $2.25 per doz.
7 in. $6.40 per doz.

Malleable Frame Knot Passing Pulley.

With 1 Inch Loose Pin, 6 Inch Sheave and Swivel Eye.

Fig. 676 (*Khan*) List, **$6.90** Doz.

Fig. 819 (*Kaney*) List, **$7.50** Doz.

Fig. 676 illustrates our new pattern Malleable Frame Knot Passing Pulley. The sheave is hard maple, 6 inches in diameter; the frame the best annealed malleable iron. Is neat and strong. Will pass a large knot or splice, and is especially designed for use with the reversible carrier. Sheave dipped in hot oil.

Fig. 819 represents the same frame with 6 inch cast sheave. The sheaves are interchangeable.

Pulleys.

Fig. 1133 (*Kam*)
List, **$6.00** Doz.

The Myers O. K. Plain Pulley.

Fig. 1133 illustrates the Myers O. K. Plain Pulley with 6 inch hard maple sheave. The frame has heavy ribs and swivel eye. The frame of this pulley follows the rim of the sheave to a point nearly opposite the axle. This not only gives great strength to the pulley, but prevents the wearing of the rope in drawing over the side of the cast frame, as is the case on nearly all plain pulleys. The axle is 1⅛ inch diameter. The sheave is made of hard maple dipped in hot oil.

Fig. 1267 represents our Cast Frame Plain Pulley with 6 inch hard maple sheave and 1¼ inch loose pin. Improved frame, neat design and different from the ordinary plain pulley.

Fig. 1267 (*Keckel*)
List, **$4.80** Doz.

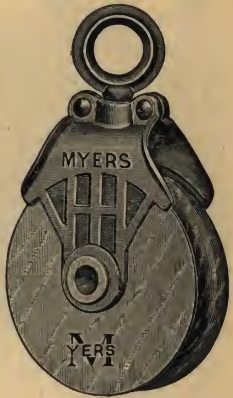
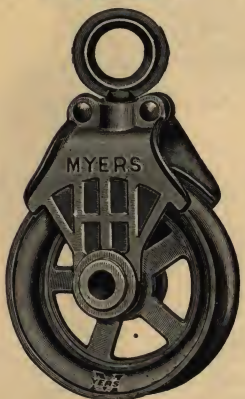


Fig. 1268
(*Keck*)
List, **$5.55** Doz.



Cast Frame Pulleys With Iron Sheaves.

Fig. 1268 represents our 6 inch Iron Sheave Pulley with heavy ribbed cast frame. The axle is 1⅛ inches in diameter.

Fig. 692 represents our Common All Cast Iron Pulley. The frame is reinforced with heavy ribs on the edge and center. The sheave is 5½ inches in diameter, with solid axle.

Fig. 692
(*Kid*) List, **$4.80** Doz.

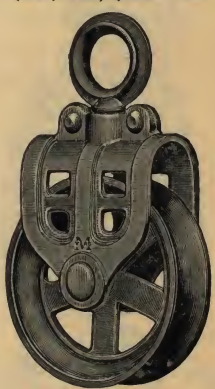


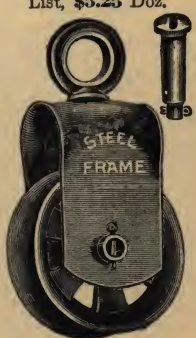
Fig. 619 (*Key*)
List, **$5.25** Doz.

Steel Frame Pulleys.

With 5½ Inch Iron Sheave. Are Much Superior to Cast Frame Pulleys.

Figs. 565 and 619 illustrate our Steel Frame Pulleys. The frame is stamped out of a piece of wrought steel; is fitted with either malleable swivel eye or steel hook. The sheave is cast iron, 5½ inches in diameter, revolving on a large axle.

Fig. 565 (*Kedge*)
List, **$5.25** Doz.



Pulleys.

Fig. 466 (*Keel*)
List, **$6.00** Doz.

Wood Frame Pulley.

REED PATTERN.

With 1 Inch Loose Pin; Self-Lubricating; 4½ Inch Wood Sheave.

Figs. 466 and 434 illustrate our Wood Frame Pulley, with wrought iron axle support as shown in cut. The frame is hard wood riveted together at the top. The sheave revolves on a large axle, is fitted with either malleable eye or steel hook as shown.

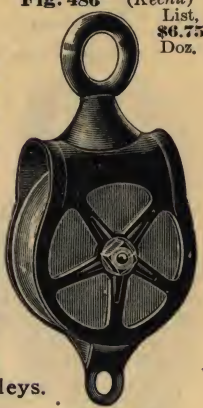
Fig. 434 (*Keen*)
List, **$6.00** Doz.

Fig. 1124 (*Keeler*)
List,
$18.00
Doz.

Special Pulley.
With Malleable Frame.

Fig. 1124 represents our new Special Pulley with Malleable Iron Frame extending around the entire surface of the sheave. This is a great protection to the rope. The frame is made in two separate pieces riveted together at the swivel eye; has malleable iron clevis and steel bolt. This pulley is especially designed for rough usage.

Fig. 486 (*Kechil*)
List,
$6.75
Doz.



Floor Pulley.
With Large Loose Pin.

Fig. 486 illustrates our new Floor Pulley, with strong, neat frame and swivel eye, with either iron or wood sheave, with an eye at the top by which it can be fastened up to the post, thus preventing it becoming unfastened from hook or tangling of the rope.

Special Steel and Malleable Frame Pulleys.

Fig. 1122
(*Kerl*)
List,
$21.00
Doz.

Extra Heavy and Especially Adapted for Hard Service.

Fig. 1651

(*Prase*)
List,
$21.00
Doz.

Fig. 1062
Plain bearing, otherwise same as Fig. 1651.
(*Kest*)
List, **$18.00** Doz.

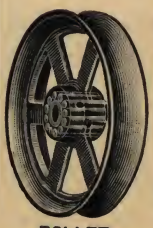


Fig. 1316

(*Palus*)
List,
$18.00
Doz.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Pulleys.

The Myers Roller Bearing Pulley.

With Malleable Iron Frame.

Fig. 1701
(*Tagger*)
List,
$18.00
dozen

Fig. 1701 illustrates the Myers Roller Bearing Pulley made with malleable iron frame and large malleable swivel eye. The frame has heavy ribs and is riveted together at both ends, making a very substantial construction. It is designed for extra heavy work and guaranteed to be the best pulley of its kind on the market. It has 5 inch sheave with wide groove suitable for any size rope up to 1¼ inches in diameter; wheel revolves on hard steel roller bearings, which in turn surround a ⅝ inch hard steel pin held rigidly in position.

The Derrick Pulley.

Fig. 981
(*Krat*)
List,
$12.00
Doz.

Fig. 981 represents the Derrick Pulley with 5 inch wood sheave and 1½ inch hard maple frame, and steel yoke and hook. The frame of this pulley is wider than the sheave, so as to allow two pulleys to be used together, the one sheave not interfering with the other. Also furnished with eye like Fig. 466.

Malleable Frame Parallel Sling Pulleys.

Fig. 1799 (*Puss*)
List, **$3.00** per Pair
For Rope or Cable.

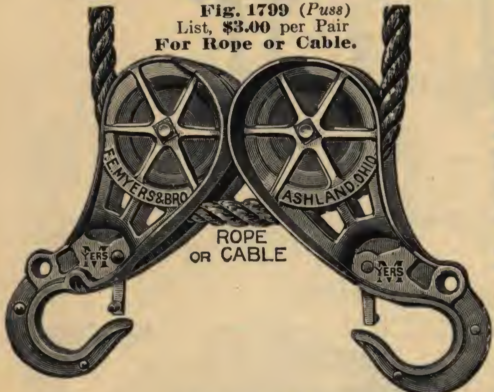


Fig. 1799 represents a pair of Improved Malleable frame pulleys for use with manila rope or ⅜ inch cable for draft rope in handling slings for stacking purposes. They are also used regularly in connection with Sure Grip and Right Angle Sling Unloaders. The sheaves are so shaped that either a ⅜ inch cable or a ⅞ inch manila rope can be used.

So constructed that they will not turn over or become locked together.

FLOOR AND HANGING HOOKS.

Fig. 1817
(*Tenno*)
List,
$5.25
Doz.

Fig. 1817 Wood Frame Trip Rope Pulley, 3″ Sheave, Malleable Eye.

Fig. 1506
(*Postill*)
List,
$4.15
Doz.

Trip Rope Pulley.
3 inch iron sheave.

Fig. 266 (*Herd*)

List,
⅝″ **$1.50**
¾″ **$1.75**
Doz.

Fig. 302
(*Joy*)
List,
$1.75
Doz.

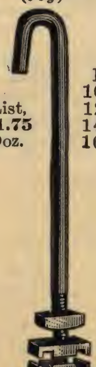


Fig. 267
(*Join*)
List,
Per dozen,
10 in. **$1.25**
12 in. **1.35**
14 in. **1.50**
16 in. **1.60**

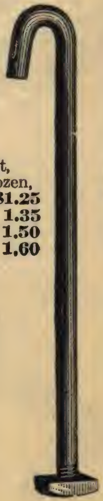


Fig. 303
For Wood Track.
(*Judge*)
List,
$2.50
Doz.

For D. S. Track.
(*Thim*)
List,
$2.50
Doz.

Fig. 266, Floor Hook, made in two sizes, ⅝ and ¾ inches.

Fig. 302, represents the Steel Track Hanging Hook, as used for double steel track, length 6 and 10 inches. The Double Steel Track Hook is also made with screw eye, similar to Fig. 303.

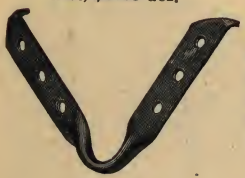
Fig. 267, Hanging Hook for wood track, made of ½ inch iron in the following lengths: 10, 12, 14, 16 and 18 inches. These measurements are taken after bending. The 10 inch hook is used with the iron Rafter Bracket.

Fig. 303, Screw Eye Hanging Hook, for wood track. Length, 10 inches from eye to end of rod.

Rafter Brackets.

Used in Putting up Wood or Steel Tracks.

Fig. 301
(*Keeper*)
List, **$0.65** doz.



Steel.

The bracket is V shaped, and is used to support hanging hook by nailing to peak of rafters. It has four holes on each side, and is held to rafter by using ¼ inch wrought iron hinge nails. It saves the expense of lumber and labor of fitting same to rafters, and is much better. Steel recommended.

Use One for Each Hanging Hook.

Fig. 436
(*Keesh*)
List, **$0.75** doz.

Malleable.

Fig. 1844

Fig. 1845

Fig 1846

RIDGEPOLE BRACKET

Fig. 1844, Ridge Pole Bracket for Hanging Hook used on 2 inch Ridge Pole.
Price, per doz.....(*Thank*)..**$1.25**

Fig. 1845, Ridge Pole Bracket for Hanging Hook used on 4 inch Ridge pole.
Price, per doz.....(*Thatch*).. **2.50**

Fig. 1846, Ridge Pole Rafter Bracket to attach Ridge Pole to Rafters.
Price, per doz.....(*Thaw*).. **2.50**

Myers Patent Rope Hitch.

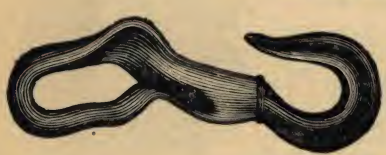
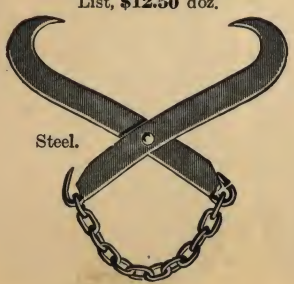


Fig. 376
(*Keld*)
List,
$4.00
doz.

It is wanted by every farmer who uses a horse hay fork. No more hard knots to untie, nor wasting of rope by cutting knot open. Rope can be released from whiffletree instantly. Hitch can be shortened to any desired length by drawing on the end of the rope. Twist in rope is removed by means of swivel, instead of going to the end to effect the working of the carrier.

Fig. 439 (*Keeve*)
List, **$12.50** doz.



Steel.

Rafter Grapples.

Fig. 439, steel grapple, is made of the best spring steel, 1⅜ x 5/16 material, opens 8 inches to attach to beam. Is furnished with chain complete. Is used to attach pulley to rafter or beam, can be quickly attached or removed. The Grappling Hooks are so shaped that they attach themselves to the side of beam or rafter, no need to surround it.

Hoisting Singletree.

Fig. 472

Fig. 1100
(*Jump*)
List, $2.00 each.

A Very Convenient Article. It Prevents the Whiffletree from Dragging on the Horse's Heels.

Fig. 438
(*Rival*)
List, $10.00 each.

Extension Hook Ladder.

It is light, strong and easily hooked up on to a rafter or timber securely, enabling the operator to ascend with safety to any part of the barn, fasten up scaffold ropes or additional ladders, track, pulleys, etc.

Fig. 904

Fork Extension.

Fig. 904 represents an extension to be used between fork and fork pulley; is made of rope and can be any length desired. A very handy device in commencing a rick, or for use in a barn without cross beams, as you need to hoist the hay only high enough to clear the load, thus saving much time. As the mow or rick fills up, drop a link in the extension rope.

Myers Snatch Block.

Fig. 628 (*Kawn*)
List, $13.75 doz.

This Device Shortens the Distance the Horse Travels, without Reducing the Elevating Power.

DIRECTIONS: Tie a knot in rope, leaving the slack rope sufficient length to elevate the bundle to carrier, and put the washer in front of knot; fasten end of slack rope to post near draft pulley (see cut Fig. 628). The rope can be thrown off the snatch pulley, and thus allow the fork to be returned to the load without waiting for the return of the horse.

How to Splice Track.

Fig. 265

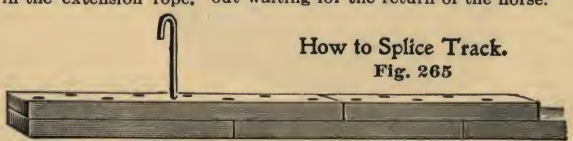


Fig. 265 shows the manner of splicing joints. Cut a long splice, and fit and put together with large wood screws or bolts, letting the heads in on under side.

Manila and Sisal Rope.

We carry in stock the *best manila and sisal rope*, in sizes as follows:

DIAMETER IN INCHES	NO. OF FT. IN LBS.
½	13
⅝	7—6 inches
¾	6
⅞	4
1	3—4 inches
1 ⅛	2—4 inches
1 ¼	2—1 inch

Other Sizes Furnished. Write for Prices.

The Myers Merchandise Conveyor.

With Sure Grip Steel Tackle Block. Will Hold the Load at Any Point.

Fig. 504

Myers Conveyor.

Fig. 1161

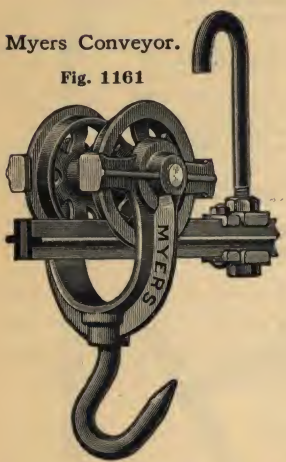


Fig. 923

Fig. 1168

Our double steel rail hay carrier track is composed of two Tee steel rails put together entirely by a system of malleable clamps, making a job that is easy to put up, and a track that is unusually strong and of such a construction that it can be placed in any kind of a building, and the hangers spaced so as to coincide with the timbers to which they are to be attached. The many inquiries we have had for a merchandise conveyor of moderate capacity, for warehouses, store rooms, distilleries, feed barns, etc., has led us to develop and place on the market a track with trolley, and Sure Grip lifting block, as the cut indicates, which when properly supported has a capacity up to 2000 lbs. The tackle block is so arranged as to have a sure grip device, retaining the load at any point it may be elevated.

PRICE LIST.

No. 2,	Trolley only, Fig. 923 (no blocks)	*(Rounder)*	**$6.00**
No. 3,	Sure Grip Tackle Block only, to be used with ⅝ inch rope. Capacity, 500 lbs. Price	*(Tike)*	**2.75**
No 4,	Sure Grip Tackle Block only, to be used with ½ inch rope. Capacity, 750 lbs. Price	*(Tikor)*	**5.00**
No. 5,	Sure Grip Tackle Block only, to be used with ⅝ inch rope. Capacity, 1200 lbs. Price	*(Tickur)*	**6.25**
No. 6,	Sure Grip Tackle Block only, to be used with ¾ inch rope. Capacity, 1800 lbs. Price	*(Tilde)*	**7.50**
Track, with hangers every 15 inches. Price, per foot		*(Round)*	**.50**

The Myers Conveyor.

For Use in Markets, Packing Houses, Store Rooms, Feed Barns, Warehouses, Etc.

Fig. 1161 illustrates the Myers Conveyor, adapted for use as specified above; is strong and substantially made.

PRICE LIST, Represented by Fig. 1161.

No. 1.	Trolley only, as shown in Fig. 1161. Each	*(Ryel)*	**$3.75**
Track, complete hangers every 15 inches. Price, per foot		*(Round)*	**.50**

MYERS

GIANT, NEW-WAY, O. K., FAULTLESS AND SURE GRIP

DOOR HANGERS

FOR

BARN, FACTORY AND WAREHOUSE

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Faultless Self-Cleaning Door Hanger Track.

Simple, Rigid and Efficient.

Thoroughly Protects the Top of the Door from Storms, Sleet, Snow, Ice, Etc.

No Possible Chance for Dirt or Dust to Lodge.

Fig. 1775

Fig. 1778

Fig. 1776

Fig. 1777

Fig. 1779

The Figs. 1775 to 1779 illustrate the Myers Faultless Self-Cleaning Door Hanger Track and its general construction. The special feature of this track is the continuous opening between the track and the building, as shown in Fig. 1778. The track is constructed as follows: The covering or roof is attached to the building at upper edge by means of lag screws or spikes, and extends downward and outward to a point below the top of the door, covering it completely and protecting it from the weather. The Track proper is a flat, hard steel bar attached to the cover by means of steel stud rivets, leaving an opening between the track and cover through which any dust or dirt will naturally fall, thus insuring a clean runway for the trolley at all times and under all conditions. The stud rivets attaching the track to the cover are located directly underneath the lag screws that attach the cover to the building, insuring the track or cover against buckling.

THE JOINT SPLICE or clamp is formed of a piece of heavy flat steel following the curvature of the track cover and bending backward underneath the lower edge, forming a support that makes the splice as strong as any other part of the track (see Fig. 1779). This joint splice is riveted to one end of the track and is included with it, a device that enables the carpenter to install the track as quickly as can be done with the old style Stayon or Sure Grip flat steel track. Fig. 1777 further illustrates the joint clamp splice, and also shows that the joint in the track proper is formed by interlocking lugs which register perfectly regardless of the track cover, which is spaced a slight distance apart to permit this interlocking.

THE END STOP, Fig. 1776, is formed from a piece of wrought steel, which closes the end of the track and is held in position by a rivet in the track and a lag screw passing through the center of the track cover and end stop. It is designed both to stiffen the track and stop the door.

As a whole, we guarantee the Faultless Door Hanger and Self Cleaning Track to be the most complete article of its kind on the market, embodying all the up-to-date features with the most easy running qualities of any door hanger on the market.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Faultless Adjustable Tandem Door Hanger.

PATENTED.

For Faultless Self-Cleaning Track.

Simple, Rigid and Efficient. **Lateral Adjustment to and from the Building.**
Vertical Adjustment to Raise or Lower the Door.

Fig. 1773

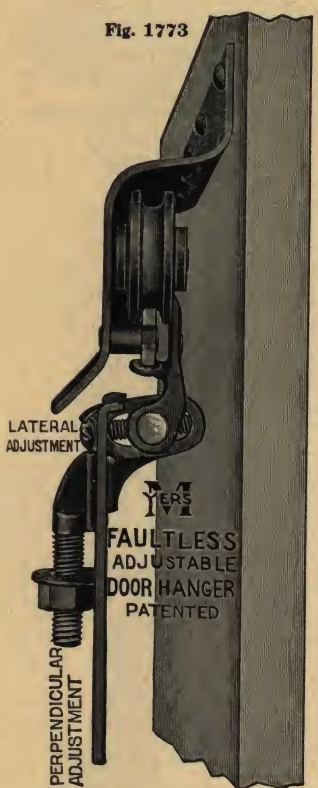


Fig. 1774

Figs. 1773 and 1774 illustrate the Myers Faultless Adjustable Tandem Door Hanger with flexible engine truck and complete adjustments.

The **WHEELS** or **ROLLERS** are turned from steel shafting, which revolve on hard steel roller bearings.

The **ENGINE TRUCK** is pivoted in the center, allowing it to oscillate to adjust itself to any variation in the track.

The **LATERAL ADJUSTMENT**, as shown in Fig. 1773, is a heavy screw bolt with a screw head adjusted by means of an ordinary screwdriver. Turning this bolt to the right or left moves the door to or from the building. The object of this adjustment is to permit the use of different thicknesses of doors, and also to close up all cracks between the door and building.

The **VERTICAL ADJUSTMENT** is a heavy malleable iron bolt passing through a part of the hasp. By turning the nut the door is raised or lowered as desired.

The **STAYON DEVICE** is formed by a projection on the side of the trolley frame, which extends underneath the track, preventing the trolleys from being thrown off of the track under any condition.

FLEXIBLE. The Faultless is fitted with our flexible joint, which permits the door to adjust itself to uneven surfaces on the building, and also allows it to swing out at the bottom when desired.

PRICE LIST.

No. 20, The Myers Faultless Tandem Adjustable Hanger, complete with bolts and end stops.
Price per dozen pair ..... (*Teaw*).. **$32.00**

No. 21, The Myers Faultless Tandem Plain Hasp Hanger, complete with bolts and end stops.
Price per dozen pair ..... (*Teaz*).. **27.00**

Myers Faultless Self-Cleaning Track, in 4, 6 and 8 foot lengths, including joint splice.
Price per foot ..... (*Teazer*).. **.37**

The Myers Giant Adjustable Tandem Door Hanger.

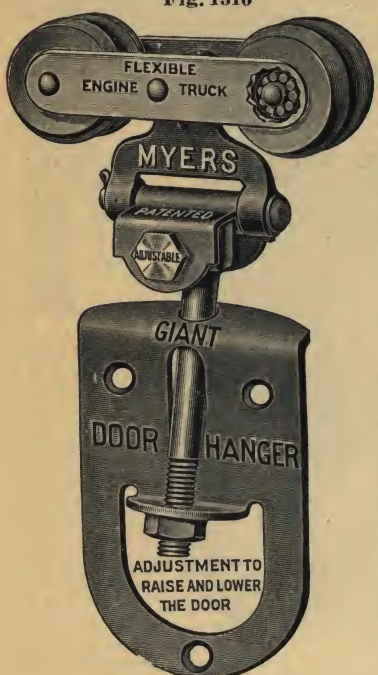
PATENTED.

For Giant Tubular Girder Track.

Adjustable to and from Building and to Raise and Lower the Door.

Can be used on doors varying in thickness from 1½ inch to 3 inches or more. Is not only adjustable to every required condition, but is flexible as well. The flexible features permit the door to pass over uneven surfaces on building. Has hard steel rollers, machine turned, which revolve on hard steel roller bearings. Has flexible engine truck.

Fig. 1510

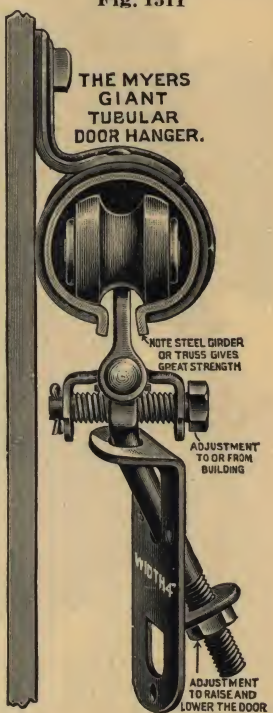


No. 15 Giant Adjustable Hanger.

The Myers Giant Door Hanger, Figs. 1510 and 1511, is covered thoroughly by Letters Patent both as to track and adjustable features. The track is made of high carbon stiff steel with two flanges turning downward at the lower edge making the truss or girders which stiffen the track, enabling it to carry a much heavier load than any other style tubular track.

The adjustable features are very important, as the doors can be adjusted to and from the building to prevent snow or rain from blowing in. The perpendicular adjustment permits of the door being raised or lowered, as is necessary in cold weather when the ground freezes and heaves up, locking the door. Under such conditions, by simply turning up the nut on round bar at the side of the hanger raises the door away from the ground, allowing it to clear. The lateral adjustment is made in the same way.

Fig. 1511



The Trolley Wheels are solid turned steel (not rough cast iron or soft metal, hollow pressed wheels) and the largest used mounted on flexible roller bearing steel trucks provided with strong malleable swing connections for patent adjustable door holders.

PRICE LIST.

One Pair in a Box (Six Boxes in Case).

No. 15,	Myers Giant Tandem Adjustable Hanger, complete with bolts. Price per dozen pair	(*Poss*)..	**$32.00**
	Myers Giant Tubular Track, in 4, 6, and 8 foot lengths. Price per foot	(*Post*)..	**.30**
	Myers Giant Brackets, regular Price per dozen	(*Postal*)..	**2.25**
	Myers Giant Brackets, end. Price per dozen	(*Poster*)..	**2.25**

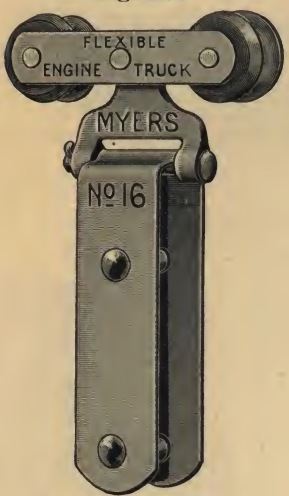
Track made in 4, 6 and 8 Foot Lengths and put up 100 Feet in Crate.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Giant Adjustable Tandem Door Hanger.

Plain Tandem Giant Door Hanger.

Fig. 1861



No. 16. Giant Plain Tandem Hanger.

Fig. 1608

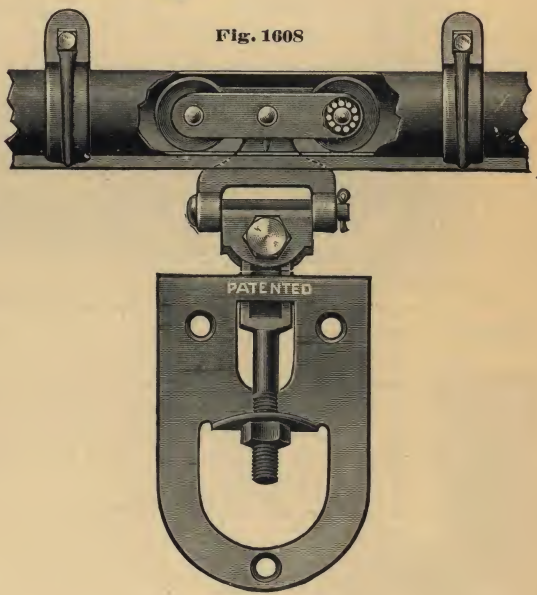


Fig. 1861 illustrates the Plain Tandem Hanger as listed under No. 16, has plain Flexible Hasp not adjustable.

Fig. 1608 illustrates a smaller view of the Giant Hanger and Track combined; also shows a section of the track cut away to indicate the complete manner in which the trolley of the hanger is covered and protected from the weather; also shows the adjusting nut for raising and lowering the door, and the great strength of the hasp, which is held to the door by three strong bolts.

Fig. 1449

Fig. 1449 represents the carton in which each set of door hangers is packed. It is a neat shelf package. Six of these cartons are packed in tight wooden box, Fig. 1450, for shipping purposes.

Fig. 1450

PRICE LIST.

One Pair in a Box (Six Boxes in Case).

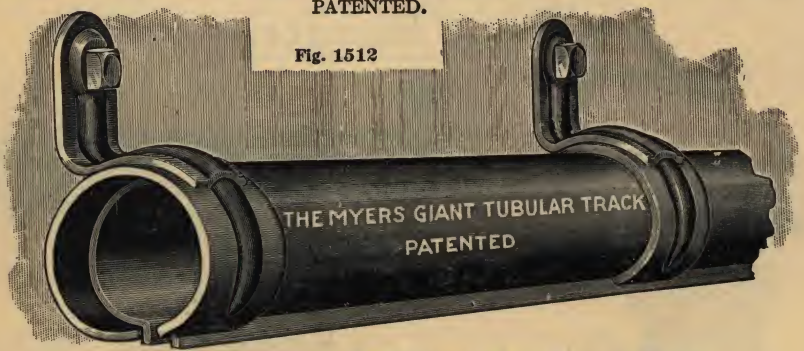
No. 16, Myers Giant Tandem Plain Hasp Hanger, Fig. 1861, complete with bolts. Price per dozen pair ..... *(Postic)*.. **$27.00**
Myers Giant Tubular Track, in 4, 6, and 8 foot lengths. Price per foot..... *(Post)*.. **.30**
Myers Giant Brackets, regular. Price per dozen..... *(Postal)*.. **2.25**
Myers Giant Brackets, end. Price per dozen..... *(Poster)*.. **2.25**

Track made in 4, 6 and 8 Foot Lengths and put up 100 Feet in Crate.

The Myers Giant Tubular Girder Track.

PATENTED.

Fig. 1512



We call special attention to the Giant Patent Tubular Track.

Fig. 1513

INTERMEDIATE BRACKET

THE TRACK—Fig. 1512 illustrates the Giant Tubular Track as mounted with brackets. We call special attention to the two flanges shown on the under side of the track, which are a part of the track itself, turned down forming a girder or truss, which stiffens the track. The flanges referred to above are patented, and cannot be used by any other manufacturer. The advantage of the flanges or girders on the Giant Track is that they add greatly to its strength and carrying capacity. We guarantee this track to carry a greater weight door than any other offered to the trade.

Its great strength decreases its liability of spreading or sagging, as is the tendency on other Tubular Track. We call special attention to the fact that the peculiar shape of the inner side of the track is such that no dirt or dust can lodge therein, as the dust blowing against the building and into the track would immediately fall out of its own weight, leaving the track clean and clear at all times. In diameter, the Giant Track is the largest made. The stock is heavier, which in connection with the flange girder, adds greatly to strength.

Brackets Required for One Dozen Pair Hangers.

36 Intermediate—24 End.

Fig. 1514

GIANT END BRACKET RIGHT OR LEFT HAND

The Joint or Splice is made by the ends of the track meeting half way in the bracket, thus making the joint as strong as any other part of the track. The track when on the building is held together by the end brackets, which clamp it tightly and hold the entire track in a rigid position, preventing it from slipping endways. The track is made in 4, 6 and 8 foot lengths; this is peculiar only to the Giant and New-Way Tubular Track. Other similar tracks must be made in short lengths, owing to their inability to carry the weight. We can furnish the track all in 8 foot lengths, or all in 4 foot lengths, or part of either as required. We recommend the use of longer length track.

The Trolley Wheels are solid turned steel (not rough cast iron or soft metal, hollow pressed wheels) and the largest used mounted on flexible roller bearing steel trucks provided with strong malleable swing connections for patent adjustable door holders.

The Brackets. Fig. 1513 illustrates the bracket as made to support the track every four feet. The bracket is pressed steel, with a heavy reinforced rib for stiffness, and is held in position by a lag screw at the upper end. The lower part of the bracket is carried against the side of the building, making a substantial support and one of sufficient strength to carry any weight door.

The end bracket, as shown by Fig. 1514, is similar to the regular intermediate bracket, with the exception that it has one end closed, which not only holds the track securely in position from sliding endways, but also makes it bird proof. The end brackets are reversible and can be used on either end of the track. All brackets are made of pressed steel.

Fig. 1517

Fig. 1517 represents the Giant Tubular Track as crated for shipment. Each crate contains 100 feet of track, made up of three 4 foot pieces, four 6 foot pieces and 8 eight foot pieces. Track is nicely nested together, taking up the smallest space possible. Crate is made of hard pine and will stand rough handling in shipping and is a neat package for warehouse storage.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

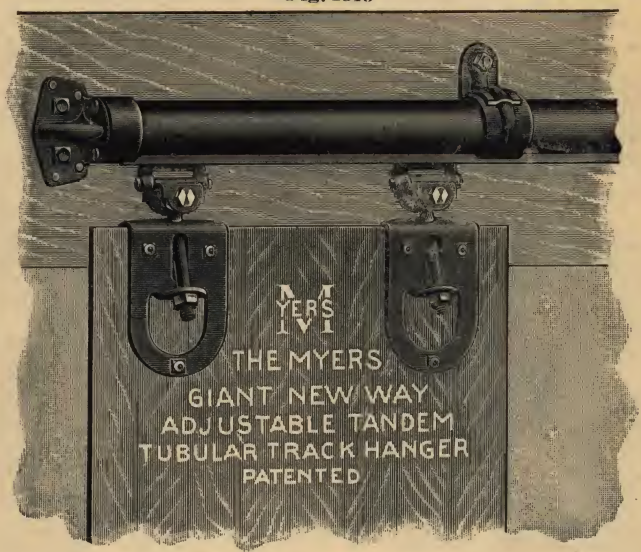
The Myers Giant Adjustable Tandem Door Hanger.

PATENTED.

Fig. 1515 is a small illustration of a complete door as ordinarily used showing manner of hanging the track and attaching hangers; the lateral and perpendicular adjustments are appreciated here, as they permit of all openings being closed, preventing draught and insuring warm and comfortable buildings.

The hangers are flexible, permitting door to pass over uneven surfaces on buildings without binding.

Fig. 1515



Dealer's Display Sample.

Fig. 1894

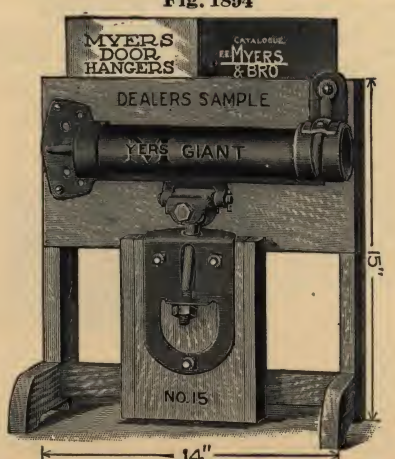


Fig. 1893

We are prepared to furnish a neat model door, nicely finished and mounted, suitable for counter—Figs. 1893 and 1894. On an order for quantity of Hangers and necessary amount of track, one display sample will be furnished.

Samples furnished for Nos. 3, 10, 15 or 20 Door Hangers.

The Myers New-Way Adjustable Tandem Door Hanger.

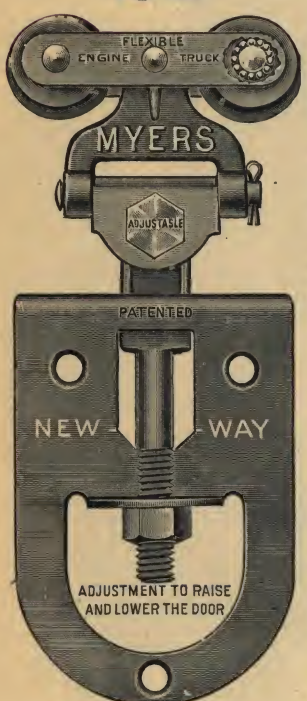
For Tubular Girder Track.

Adjustable to and from Building and to Raise and Lower the Door.

Has flexible engine truck. Adjustable features are patented and used only on the Myers Hangers.

Can be used on doors varying in thickness from 1½ inches to 3 inches or more.

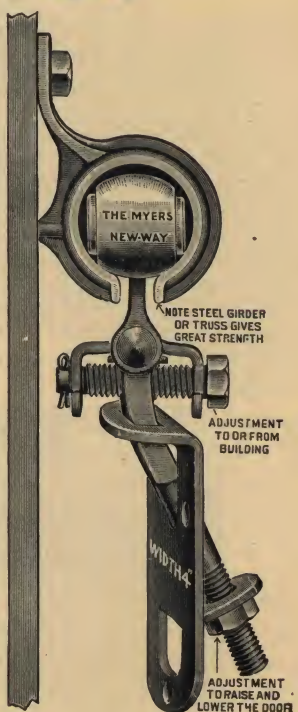
Fig. 1420



The Myers New-Way Door Hanger, as illustrated in large cuts by Figs. 1420 and 1421, is covered thoroughly by Letters Patent both as to track and adjustable features on the Hanger. The track is made of high carbon stiff steel with two flanges turning downward at the lower edge, making the truss or girders which stiffen the track, enabling it to carry a much heavier load than any other style tubular track. In addition to this, there is no possible chance for dirt to lodge on the inner side of the track.

The adjustable features of this hanger are very important, as they enable the user to adjust the door to and from the building to prevent snow or rain from blowing in. The perpendicular adjustment permits of the door being raised or lowered, as is necessary, especially in cold weather, as in such cases the ground when frozen will heave up, thus locking the door. Under such conditions, simply turning up the nut on round bar at the side of the hanger, raises the door away from the ground, allowing it to clear. The lateral adjustment is made in the same way to shove the door to or from the building as may be desired. These features, both as to adjustment and the flanges on the underside of the track, are thoroughly covered by patents and controlled by us.

Fig. 1421



PRICE LIST.

One Pair in a Box (Six Sets in Case).

No. 10, Myers New-Way Tandem Adjustable Hanger, complete with bolts. Price per dozen pair ..... (*Pluck*).. **$20.00**

Myers New-Way Tubular Track, in 4, 6, and 8 foot lengths. Price per foot.. (*Pluff*).. **.27**

Brackets, regular. Price per dozen..... (*Plug*).. **2.25**

Brackets, end. Price per dozen..... (*Plumb*).. **2.25**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers New-Way Adjustable Tandem Door Hanger.

Storms, Sleet or Ice Have No Effect on the Myers New-Way Track or Hanger.

Fig. 1503

Fig. 1422

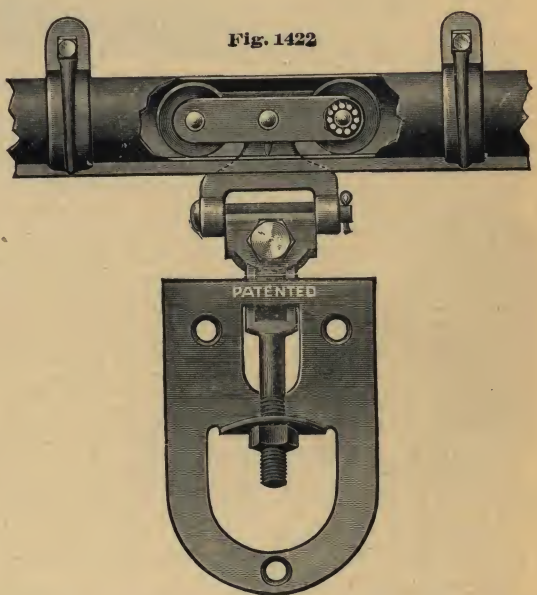


Fig 1422 illustrates a smaller view of the Hanger and Track combined; also shows a section of the track cut away to indicate the complete manner in which the trolley of the hanger is covered and protected from the weather.

Fig. 1503 illustrates the Plain Hasp Hanger No. 11, not adjustable, but a very popular Hanger

Fig. 1449

Fig. 1449 represents the carton in which each set of door hangers is packed. It is a neat shelf package. Six of these cartons are packed in tight wooden box, Fig. 1450, for shipping purposes.

Fig. 1450

PRICE LIST.

One Pair in a Box (Six Sets in Case).

No. 11,	Myers New-Way Plain Tandem Hanger, complete with bolts. Price per dozen pair .....(*Posed*)	**$24.00**
	Myers New-Way Tubular Track, in 4, 6 and 8 foot lengths. Price per foot...(*Pluff*)..	**.27**
	Brackets, regular. Price per dozen.....(*Plug*)..	**2.25**
	Brackets, end. Price per dozen.....(*Plumb*)..	**2.25**

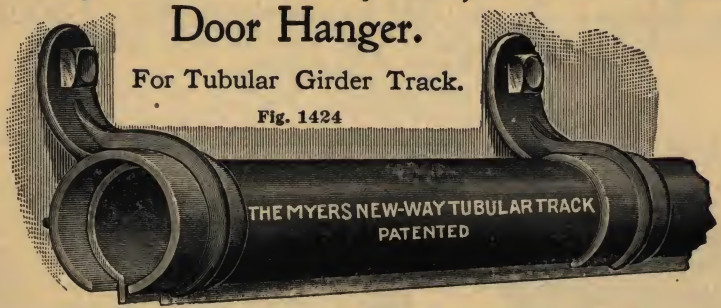
F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers New-Way Adjustable Tandem Door Hanger.

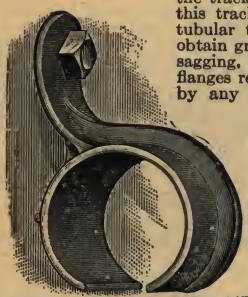
For Tubular Girder Track.

Fig. 1424



We call special attention to the New Patent Tubular Track.

Fig. 1425

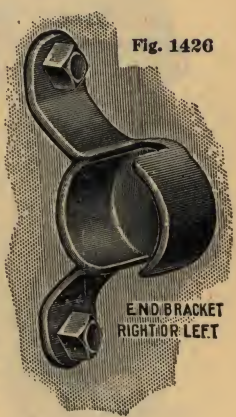


INTERMEDIATE BRACKET

THE TRACK. Fig. 1424 illustrates the track and brackets. We call attention to the two flanges shown on the under side of the track, which are a part of the track itself, turned down, forming a girder or truss which stiffens the track and increases carrying capacity. We guarantee this track to carry a greater weight door than any other tubular track offered to the trade. With this form we obtain greater strength, hence less liability of spreading or sagging, as is the tendency on other tubular tracks. The flanges referred to above are patented and cannot be used by any other manufacturer. We call special attention to the fact that the peculiar shape of the inner side of this track is such that no dirt or dust can lodge therein, as the dust blowing against the building and into the track would immediately fall out of its own weight, leaving the track clean and clear at all times.

The diameter of our track is not quite as large as some, but the stock is heavier and weight the same. The patent girder construction makes it stronger. Our trolley wheels are solid turned steel (not rough cast iron or soft metal hollow pressed wheels) and as large as used for years, mounted on flexible roller bearing steel trucks provided with strong malleable swing connections for patent adjustable door holders.

Fig. 1426



Brackets Required for One Dozen Pair Hangers—36 Intermediate—24 End.

THE JOINT OR SPLICE is made by the ends of the track meeting half way in the bracket, thus making the joint as strong as any other part of the track. The entire track when on the building is held together by the end brackets, which clamp it tightly and hold the entire track in a rigid position, preventing it from slipping endwise. The track is made in 4, 6 and 8 foot lengths; this is peculiar only to the New-Way Tubular Track. Other similar tracks must be made in short lengths, owing to their inability to carry the weight. We can furnish the track all in 8 foot lengths, or all in 4 foot lengths, or part of either as required. We recommend the use of longer length track.

THE BRACKET. Fig. 1425 illustrates the bracket as made to support the track every 4 feet. The bracket is malleable iron, with a heavy rib, and held in position by one lag screw at the upper end. The lower part of the bracket is carried against the side of the barn by means of a support that rests against the building, making a substantial bracket and one of sufficient strength to carry any weight of door.

THE END BRACKET, as shown in Fig. 1426, is similar to the regular bracket, with the exception that they have one side closed up, which not only holds the track securely in position from sliding endwise, but also makes it bird proof. **End brackets are reversible and can be used on either end of track.**

Fig. 1448

Fig. 1448 represents the New-Way Tubular Track as crated for shipment. Each crate contains 100 feet of track, made up of three 4 foot pieces, four 6 foot pieces and eight 8 foot pieces. Track is nicely nested together, taking up the smallest space possible. Crate is made of hard pine and will stand rough handling in shipping and is a neat package for warehouse storage.

PRICE LIST.

Myers New-Way Tubular Track, in 4, 6 and 8 foot lengths. Price per foot	*(Pluff)*	$ .27
Brackets, regular. Price per dozen	*(Plug)*	2.25
Brackets, end. Price per dozen	*(Plumb)*	2.25

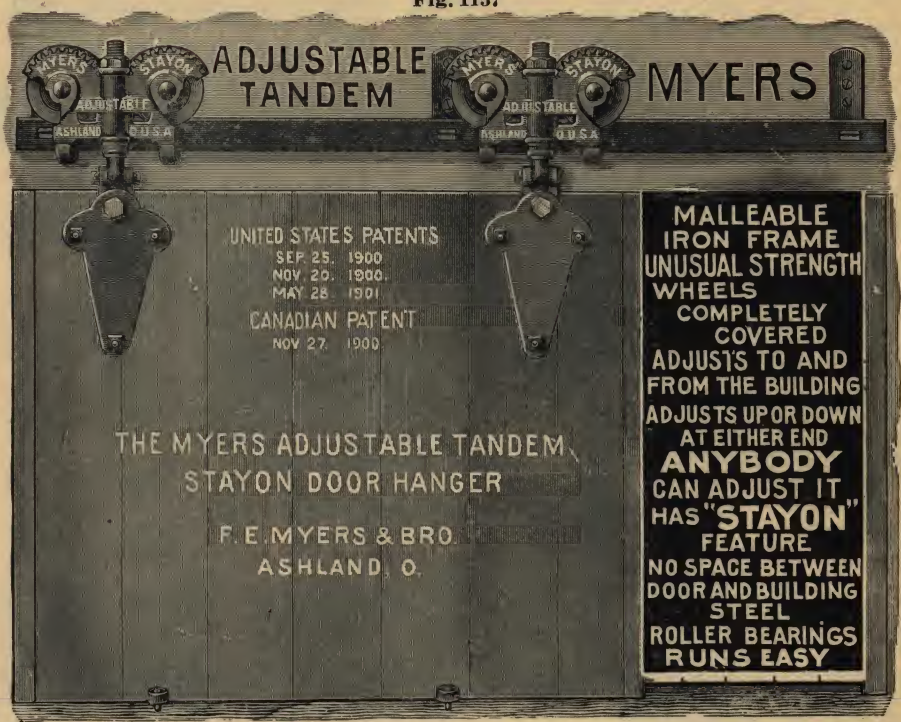
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Adjustable Tandem Stayon Flexible Door Hanger.

PATENTED.

With Steel Roller Bearings.

Fig. 1157



Figs. 1154, 1155, 1156 and 1157 illustrate the latest Myers Adjustable Tandem Stayon Door Hanger constructed with a substantial malleable iron frame covering both wheels.

This hanger embodies all of the many advantages of the original Flexible Stayon Hanger, invented and patented by us, which has reached the enormous sale of over 400,000 pair annually.

This adjustable hanger has many improvements, some of which are:—

THE ADJUSTABLE feature permits the door to be raised or lowered at either side independently and at any time by the simple turning of a nut. By means of the heavy horizontal carrying bolt shown in Fig. 1156 the door can be adjusted to or from the building without dismounting the door.

THE HASP is composed of two pieces of steel plate, which permits of it being used on any thickness of door without bridging or cutting

THE STAYON feature is shown by the two loops in Fig. 1155, formed by part of the frame extending around the lower edge of the track, which prevents the hanger from being thrown off track under any and all circumstances.

THE FLEXIBLE feature is formed by a joint between the hasp and the hanger proper forming a hinge, which allows the top of the door to move away from the building at least one half inch when necessary for it to do so to allow the door to pass an uneven surface on the building, or when the door or boards are warped so as to cause an obstruction.

STEEL ROLLER BEARINGS. The wheels revolving on hard steel roller bearings, surround a large drawn steel axle.

FINISH. Aluminum bronze throughout, with red points.

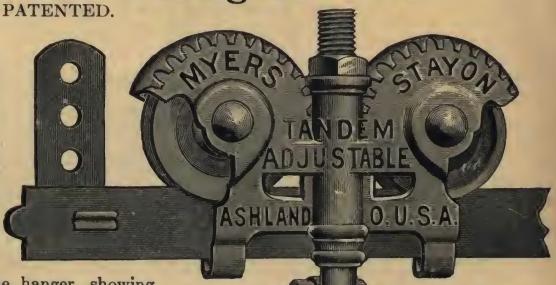
THE HANGER is most complete in every particular, being first-class in workmanship, construction, material and finish, and with the above advantages, places it, we believe, in advance of any other on the market.

THE TRACK is high carbon stiff steel, $1\frac{1}{4} \times \frac{3}{16}$ inch, supported by steel brackets, nicely finished and neatly packed, is the same size as used regularly on all Flexible Door Hangers.

The Myers Adjustable Tandem Stayon Flexible Door Hanger.

PATENTED.

Fig. 1154



With Steel Roller Bearings.

This is the only hanger on the market that can be adjusted perpendicularly so as to locate the door at any point above the ground desired or laterally so as to adjust the door to or from the building, and will also adjust itself to any thickness of door. The perpendicular and lateral adjustments are made with an ordinary wrench, and at the will of the user.

It combines all the patented features of our original Stayon Flexible Hanger, in connection with the special features mentioned above, which are not used on any other make of hanger.

Fig. 1154 represents the face view of the hanger, showing the manner in which the wheele are most completely covered; also the bracing of the frame.

Fig. 1155

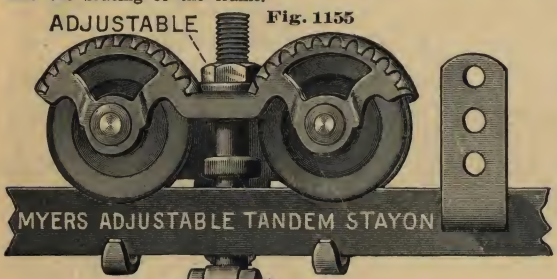
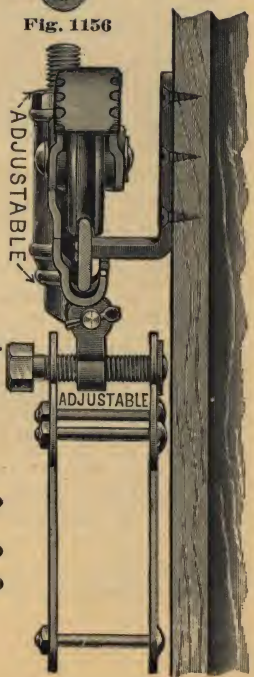


Fig. 1155 represents the reverse or back view of the hanger, and shows the center bolt and nut by means of which the door can be raised or lowered at either end independently. This is especially of advantage when the ground is heaved up by frost, thus preventing the door from being moved, and in such cases by adjusting the nut at top of the hanger the door can be raised or lowered to suit the conditions. Also shows Stayon feature.

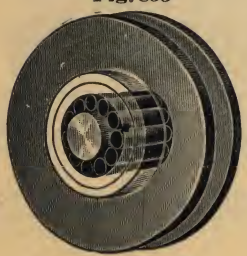
Fig. 1156 represents an edge view of the hanger showing the cross bolt by means of which the door can be adjusted to or from the building; also its adjustability for different thicknesses of doors.

Fig. 1156



Put up one set in an individual box.

Fig. 855



HIGH CARBON STEEL TRACK, 4, 6, 8 and 10 foot lengths. Size 1¼x3/16.

Exclusive Agency Given for Quantity.

PRICE LIST, One Pair in a Box.

No. 3, Myers Adjustable Tandem Stayon Door Hanger, complete with bolts, per doz. pair. Price...(*Salite*)..**$23.50**

"O. K." Steel Track for same, complete in 4, 6, 8 and 10 foot lengths per 100 feet Price.....(*Saddle*).. **11.00**

Stay Rollers for bottom of door, per dozen .....(*Saddler*).. **2.50**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Sure Grip Plain Tandem Flexible Door Hanger.

PATENTED.

Steel Roller Bearings. Easy to Operate.

Made in One Size Only and Guaranteed to Carry Any Size Door.

Fig. 1302 **Fig. 1303** **Fig. 990**

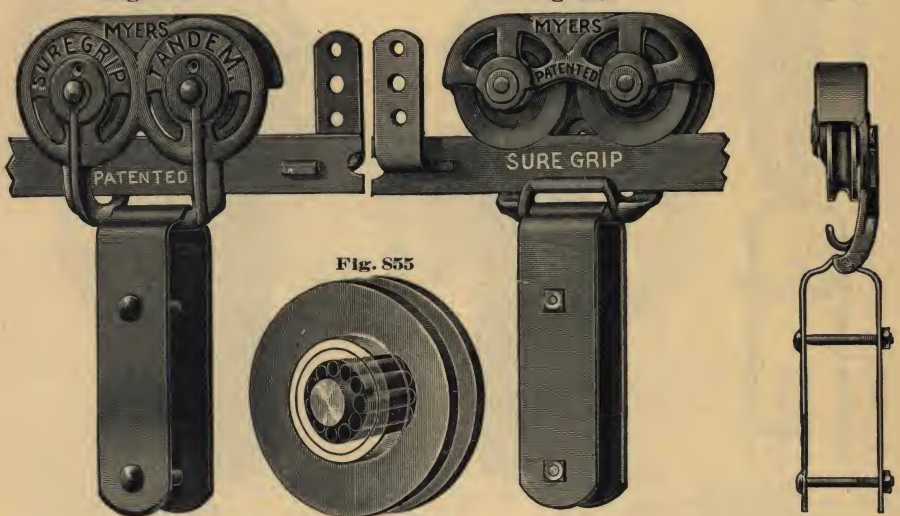


Fig. 855

Figs. 1302 and 1303 illustrate the Sure Grip Plain Tandem Door Hanger, which is built in every particular the same as the regular Sure Grip Hanger, with the exception that the Tandem is built with two wheels instead of one. The advantage of this is steady running on the track, no vibration.

Fig. 1302 shows a face view of the hanger, illustrating the heavy malleable ribs supporting the main frame, which add great strength and enable the hanger to carry any weight door.

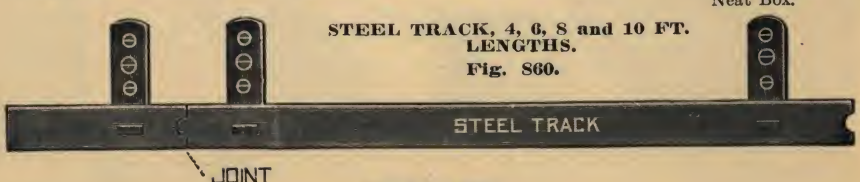
Figs. 1303 and 990 illustrate a back view of the same hanger, and show the stayon device, which locks around the under edge of the track, preventing the hanger from being thrown off under any conditions.

Fig. 855 shows the roller bearings as used in this hanger.

One Set in a Neat Box.

STEEL TRACK, 4, 6, 8 and 10 FT. LENGTHS.

Fig. 860.



PRICE LIST.

One Pair in a Box.

No. 7, Sure Grip Tandem Door Hanger, complete with bolts, per dozen pair.....(*Pall*)..**$18.00**
Steel Track for same, complete, 4, 6, 8 and 10 foot lengths, per 100 feet.....(*Saddle*).. **11.00**
Stay Rollers for bottom of door, per dozen.....(*Saddler*).. **2.50**

The Myers "O. K. Stayon" Flexible Covered Door Hanger With Hard Steel Roller Bearings.

PATENTED.

The Original Flexible Hanger Has Never Been Equaled.

Fig. 997—Edge View.

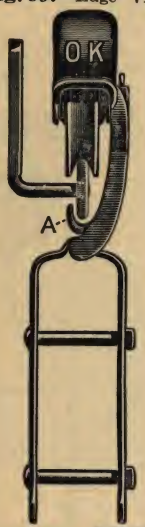


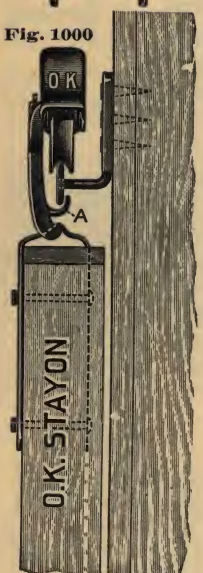
Fig. 998—Front View.

Fig. 999—Back View.

The name fully describes it.

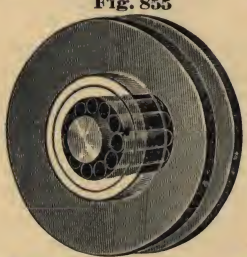
It cannot jump off the track.

Fig. 1000



Hard Steel Roller Bearings Easy Running.

Fig. 855



X-Ray View of Roller Bearings.

Fig. 1001

Swings out.

Put up one Set in an Individual Box.

Exclusive Agency given.

PRICE LIST, One Pair in a Box.

No. 1, Myers "O. K. Stayon" Door Hanger, complete with bolts, per dozen pair, weight boxed 60 pounds ..... (*Sally*).. **$16.00**

"O. K." Steel Track for same, complete, in 4, 6, 8 and 10 foot lengths, weight 1 pound per foot. Price per 100 feet ..... (*Saddle*).. **11.00**

Stay Rollers for bottom of door, per dozen ..... (*Saddler*).. **2.50**

F. E. MYERS AND BRO.

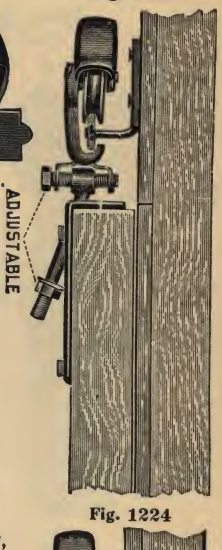
ASHLAND, OHIO, U.S.A.

The Sure Grip Adjustable Tandem Door Hanger.

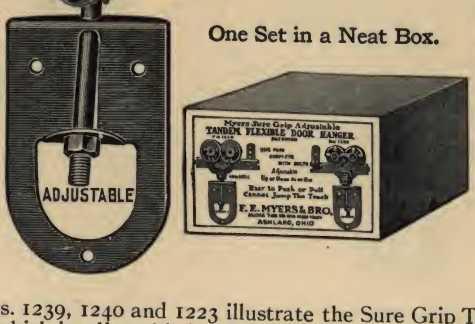
Fig. 1239

Fig. 1240

Fig. 1223



One Set in a Neat Box.



Figs. 1239, 1240 and 1223 illustrate the Sure Grip Tandem Door Hanger, which is adjustable in all parts. The perpendicular and lateral adjustments are made with an ordinary wrench, and at the will of the user. It combines all the patented features of our original STAYON Flexible Hanger, in connection with the special features mentioned above.

Fig. 1239 shows a face or front view of the Sure Grip Tandem, showing the heavy bracing of the frame, and also the strong rivet as used in the steel bracket to support the track.

Fig. 1240 illustrates a rear view of the Hanger, showing the hard steel roller bearings surrounding the drawn steel axle; also shows the arrangement of the perpendicular adjustment.

Fig. 1223 shows an edge view of the Hanger; also shows the heavy rib on the side of the frame and both adjustments. By turning the bolt immediately below the Hanger the door can be moved either toward or from the building, as the case may require. It also shows the nut by means of which the door can be adjusted in a perpendicular direction—that is, the door can be raised or lowered by means of this nut.

Fig. 1224 also illustrates an edge view of the Hanger and Swing-Out device.

The track is heavy special high carbon stiff steel, $\frac{3}{16}$ by $1\frac{1}{4}$ inches, supported by rigid brackets, with a square shoulder mortised through the track.

Fig. 1224

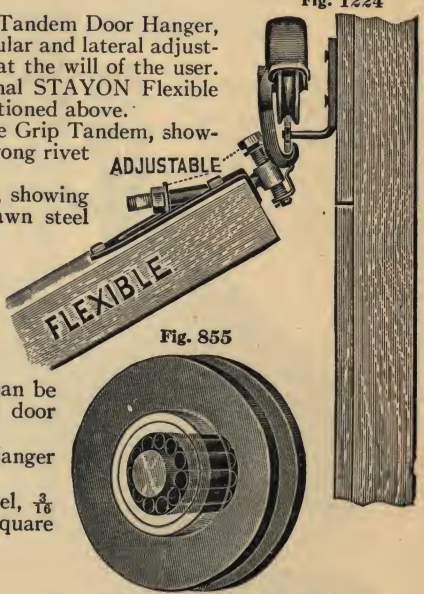
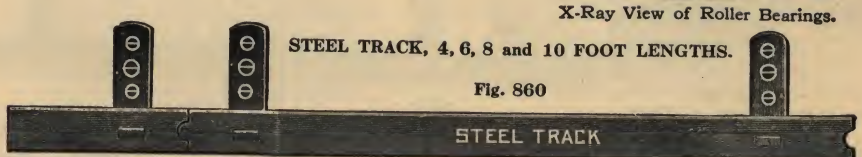


Fig. 855

X-Ray View of Roller Bearings.



STEEL TRACK, 4, 6, 8 and 10 FOOT LENGTHS.

Fig. 860

PRICE LIST—One Pair in a Box.

No. 5, Sure Grip Tandem Door Hanger, complete with bolts, per dozen pair	(*Saliner*)..	$23.50
Steel Track for same, complete, in 4, 6, 8 and 10 foot lengths, per 100 feet	(*Saddle*)..	11.00
Stay Rollers for bottom of door, per dozen	(*Saddler*)..	2.50

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Ashland Sure Grip Flexible Door Hanger.

PATENTED.

Steel Roller Bearings. Easy to Operate.

Made in One Size Only and Guaranteed to Carry any Size Door.

Fig. 989

Fig. 991

Fig. 992

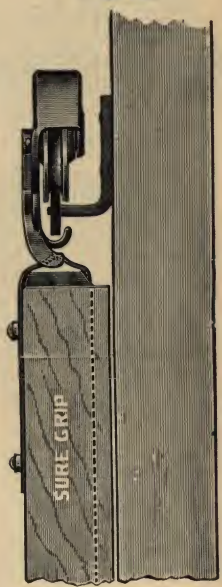
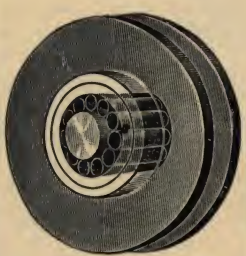


Fig. 993

IT CANNOT BE THROWN OFF THE TRACK.

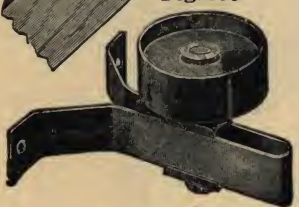
Fig. 855



X-Ray View of Roller Bearings.

One Pair in a Neat Box.

Fig. 890



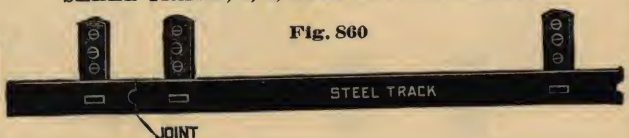
Stay Roller Used at Bottom of Door.

For

Barn, Factory and Warehouse Doors.

SEEEL TRACK, 4, 6, 8 and 10 FOOT LENGTHS.

Fig. 860



PRICE LIST.

One Pair in a Box.

No. 2, Ashland Sure Grip Door Hanger, complete with bolts, per dozen pair.....(*Saline*).. **$16.00**
Steel Track for same, complete, in 4, 6, 8 and 10 foot lengths, per 100 feet.....(*Saddle*).. **11.00**
Stay Rollers for bottom of door, per dozen.....(*Saddler*).. **2.50**

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Scenes Illustrating the Utility of the
Myers Flexible Door Hanger.

Fig. 1242

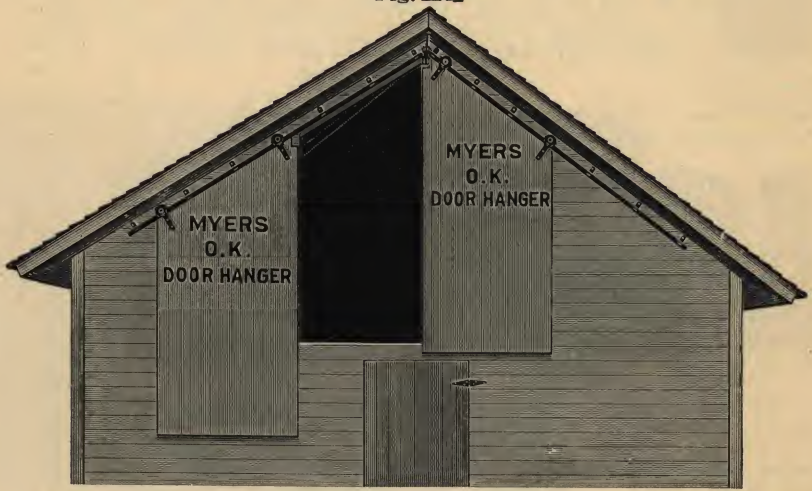


Fig. 1242 illustrates the manner in which the Myers Flexible Door Hanger can be utilized for rolling doors in the gable of an ordinary hay barn. These are the regular Door Hangers. The track is mounted parallel to the roof, and the door hung the same as an ordinary door.

By means of a ½ inch rope fastened to the inner side of the door and passing over a pulley located in the peak of the barn, the doors can be easily raised or lowered. This permits the opening of the doors to the full width, which makes a secure and practical door for this purpose.

Fig. 1003

Pushes and Pulls Easily.

It is Impossible to Throw it Off the Track or Have the Door Warp Sufficient to Prevent its Operation.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Right Angle Garage Door Hanger

X-Ray View of Roller Bearings

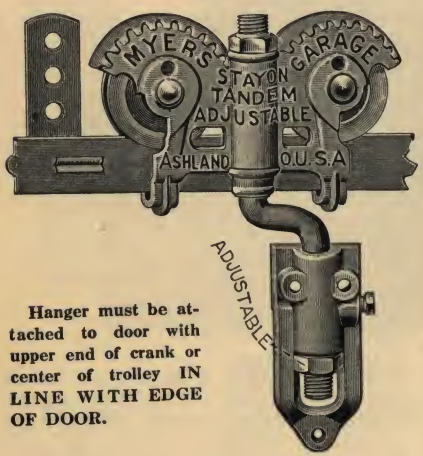
Adjustable — Tandem — Stayon

CAN BE USED WITH ANY 1¼" FLAT STEEL TRACK

FOR INSIDE OR OUTSIDE SLIDING DOORS ON ANY BUILDING

Also Used For Folding Hinged Doors

Fig. 1797



Hanger must be attached to door with upper end of crank or center of trolley IN LINE WITH EDGE OF DOOR.

Fig. 1791

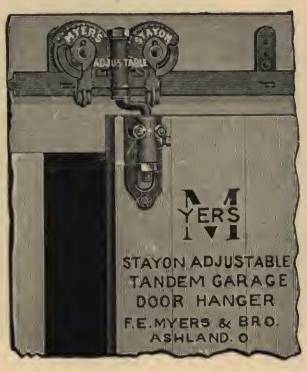


Fig. 1792

STORM AND WEATHER PROOF
This Hanger Can Be Installed By Any Carpenter

The Myers Right Angle Garage Door Hanger is designed especially for garages and similar buildings, but its advantages are so many that it is also a very practical hanger for doors on barns, warehouses, etc., where space must be considered. As is often the case, there is not sufficient free space for swinging doors, or for track extension to left or right for regular sliding doors. Here is where Myers Right Angle Garage Door Hangers are appreciated for the doors roll back along the inside of the building leaving the front open and clear. This is an advantage on any garage or other building. It does away with large swinging doors which are difficult to handle, especially in stormy weather, when they must be fastened back securely. It is also difficult to open swinging doors after heavy snows or during cold snaps when ice collects and the ground or cement heaves up on account of frost. These troubles are eliminated when Myers Hangers are used.

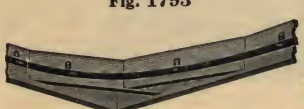
Fig. 1797 illustrates the front view of the Myers Right Angle Garage Door Hanger and shows the construction in detail. The frame is heavy malleable iron which completely protects the large wheels which operate on steel roller bearings surrounding heavy steel axles insuring easy operating doors. Patent adjustable features permit either vertical or lateral adjustments being made very easily—a monkey wrench is the only tool required to do this work. Double Stayon Device extends underneath the track and prevents trolley being thrown off under any conditions. The crank-shaped stem extending through the center of frame permits this hanger being used in connection with any thickness of door.

Fig. 1791 shows Hanger mounted on track with corner of door appearing.

Fig. 1792 is an edge view and shows Stayon Device mentioned above.

Fig. 1793 illustrates the manner of forming the bend or curve in track to permit the door to pass around the corner. This hanger can be used in connection with the regular Myers O. K. Stayon Flat Steel Door Track, Fig. 860, which is carried in stock by dealers everywhere, a length of which can be curved for corner, like shown in Fig. 1793. **For most satisfactory operation the curve of the track should be the curve of a circle having a diameter of not less than 5 feet, or a radius of 30 inches.**

Fig. 1793



Radius of this Curve not less than 30 inches

STEEL TRACK, 4, 6, 8 and 10 ft. Lengths
Fig. 860

PRICE LIST—One Set of 3 in a Carton

No. 25, Myers Adjustable Tandem Door Hanger, complete with bolts. Per dozen sets of 3..(*Tench*).. **$36.00**
Myers O. K. Steel Track, in 4, 6, 8 and 10 foot lengths. Per 100 feet.....(*Saddle*).. **11.00**

F. E. MYERS AND BRO.

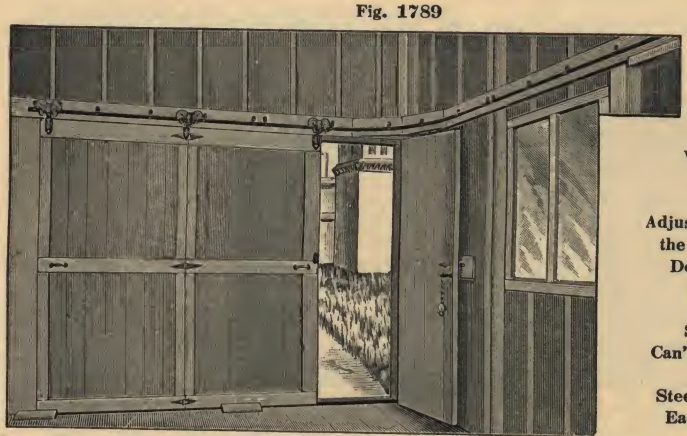
ASHLAND, OHIO, U.S.A.

Myers Right Angle Garage Door Hanger

Adjustable—Tandem—Stayon

FOR INSIDE OR OUTSIDE SLIDING DOORS ON ANY BUILDING
THIS HANGER CAN BE USED ON ANY 1¼ INCH FLAT TRACK

Fig. 1789



Malleable Iron Frame

Unusual Strength

Wheels Completely Covered

Adjustable To and From the Building and Up and Down by Means of Patented Crank

Stayon Feature—Can't Come Off the Track

Steel Roller Bearings—Easy to Push and Pull

Fig. 1789, illustrated above, shows an inside view of a garage, the doors being hung with Myers Right Angle Garage Door Hangers mounted on O. K. Stayon Steel Track. These doors roll around the corner on the curved track, and the entire front of the garage is open. It will be noted that an ordinary 30 inch hinged door is used in connection with sliding doors, permitting the user to enter building without moving the larger doors. 30, 36 or 42 inch doors, and intervening sizes work satisfactorily when hung in this way, and two, three or four doors can be hinged together as may be necessary.

Fig. 1790

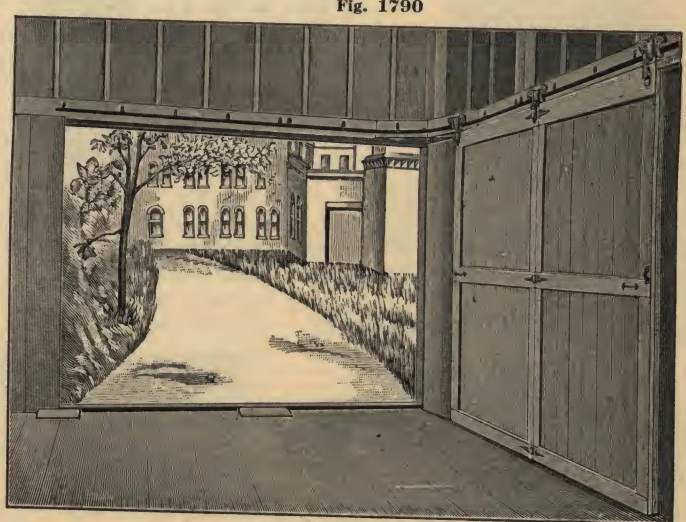
Same Hanger and Track Used on Folding Hinged Doors

Storm and Weather Proof

For Light or Heavy Doors on Garages and Other Buildings

Swinging Doors Must Be Fastened Back Every Time They Are Opened. This is Not Necessary When MYERS Right Angle Garage Door Hangers Are Used.

Practical — Up-to-Date and Proven



Opens Entire Front—Space Economy.

Fig. 1790 shows the doors as they appear when open, along the inside of the building, entirely out of the way, free from weather conditions, and occupying but little space. Entire front of garage in this illustration is utilized for door space. If this is not desired, doors can be placed to the right or left, and only a section of the front used for this purpose. Doors can be operated in either direction as conditions require.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Right Angle Garage Door Hanger

Adjustable—Stayon—Tandem

AS USED ON HINGED FOLDING DOORS

THIS HANGER CAN BE USED ON ANY 1¼ INCH FLAT TRACK

Fig. 1807

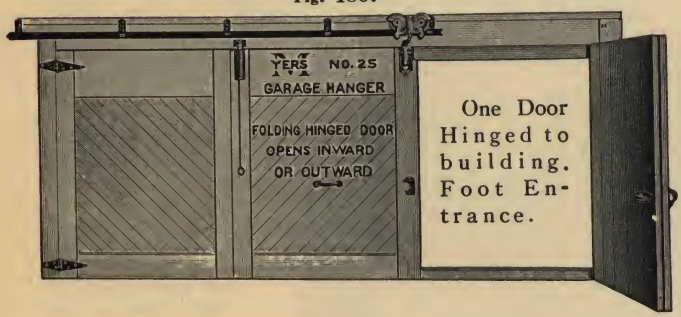
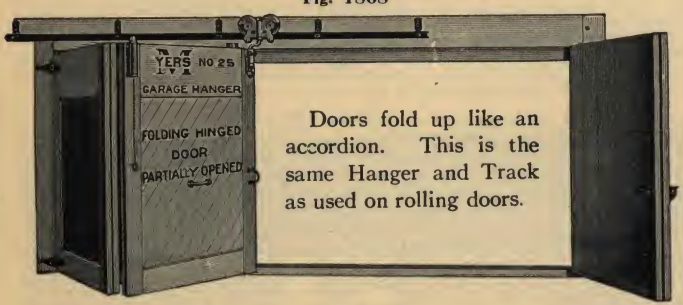


Fig. 1808



No. 25 Garage Hanger is really a Universal Hanger as it adapts itself to either rolling or folding Hinged Doors.

The No. 25 Myers Right Angle Garage Hanger and Track used on this style Door or on Rolling Doors.

Fig. 1809

Fig. 1810

Fig. 1810 shows top view of track as blocked out from building to permit doors being swung entirely open or back against side of building.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Right Angle Garage Door Hanger

Adjustable—Tandem—Stayon

FOR INSIDE OR OUTSIDE ROLLING DOORS ON ANY BUILDING

USED ON ANY 1¼ x 3-16 INCH FLAT STEEL TRACK

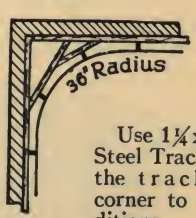
The Myers No. 25 Garage Door Hanger is the simplest yet the most complete door hanger on the market, the dealer need buy nothing special except the door hanger, as it is used on the ordinary 1¼ x 3/16" flat steel track, which is kept in stock by all dealers.

Furthermore, it is greatly appeciated by the carpenter, as it is easy to install. The garage owner will find that it takes up less space than is the case with any other hanger. The doors roll easily around the inside corner of the building. We recommend in all cases where the entire front of the garage is open that there be used a 30 inch hinged swinging door on the one side of the opening. This permits entrance to the garage without moving the larger doors, and is a great convenience. In fact, it must be used where the entire front is open, as otherwise the rolling doors could not be closed tightly against the front of the building owing to the curve of the track. In a garage like Fig. 1804, where the wall of the building is returned around the front to the extent of 36 inches, in that case, no swinging door need be used, as the rolling doors are smaller, and it is not objectionable to open them for ordinary entrance.

Fig. 1800 illustrates the bracing supporting the track at the corner of the garage. This radius should not be less than 30 inches. The bracing is made of ordinary 2x4 or 2x6 timbers.

Fig. 1801 shows a ship-lap joint where the two sections of the rolling doors are hinged together. This makes a water-tight joint.

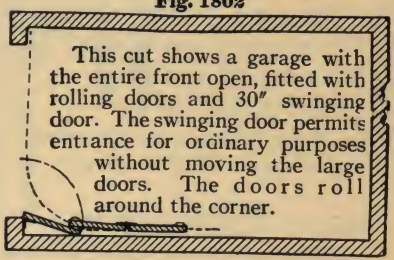
Fig. 1800



Use 1¼ x 3/16" Flat Steel Track. Bend the track around corner to suit conditions.

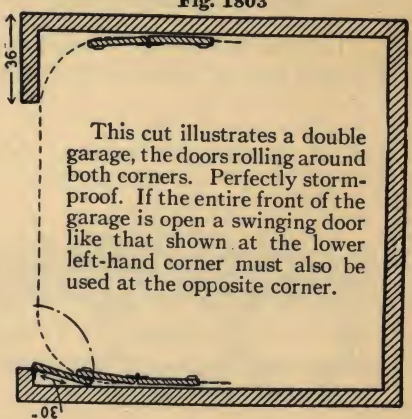
Fig. 1801

Fig. 1802



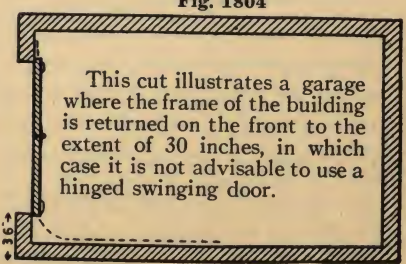
This cut shows a garage with the entire front open, fitted with rolling doors and 30" swinging door. The swinging door permits entrance for ordinary purposes without moving the large doors. The doors roll around the corner.

Fig. 1803



This cut illustrates a double garage, the doors rolling around both corners. Perfectly storm-proof. If the entire front of the garage is open a swinging door like that shown at the lower left-hand corner must also be used at the opposite corner.

Fig. 1804



This cut illustrates a garage where the frame of the building is returned on the front to the extent of 30 inches, in which case it is not advisable to use a hinged swinging door.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Myers Right Angle Garage Door Hangers

Fittings Required for Complete Door, as Shown in Fig. 1805

WE FURNISH HANGERS AND TRACK ONLY

---

10 FOOT OPENING.

One Set of Three No. 25 Hangers.
Six-6″ Strap Hinges.
Two Door Pulls.
One Hasp and Staple, or Barn Door Lock.
20 ft. 1¼ x 3/16″ Track (1-8 ft. piece and 2-6's).
The hinged door to be 30″ wide and the rolling doors 45″ each in width.

9 FOOT OPENING.

Same fittings as above, except you use 18 ft. of Track (1-8′, 1-4′, 1-6′).
Hinged door to be 30″ wide, and rolling doors 39″ each in width.

OTHER WIDTH OPENINGS.

Change width of rolling doors and length of track accordingly.
Length Track required twice the width of opening.

In openings where the swinging door is not used (See Fig. 1804) the opening must not be nearer than 30″ from the sidewall at side where track is curved.

Number of Hangers to be Used and How to Mount Them

Mount two hangers on the first door and one hanger on each additional door. Care must be taken to so mount the hanger on the door that the center of trolley will stand directly over the edge of the door. This will prevent the edge of the door coming in contact with any of the other doors.

The rolling doors can be made up of any number of sections required to fill the opening. Doors 36 to 42″ in width are preferable owing to the smaller amount of space required in passing around the corner of the building. If the rolling door is made in one section the only result is that it requires more space when passing around the corner, which is equal to shortening up the length of the garage; hence we always recommend narrow doors as that economizes space in rolling around the corner of the room.

The No. 25 Garage Door Hanger is not limited to use in a garage, as it is just as suitable for any building wherein convenient rolling doors are desired, and particularly where it is necessary to utilize all available space.

The Myers Giant or New-Way Track Used to Mount on Ceiling or Door Header.

Particularly Adapted to Garages.

Fig. 1928

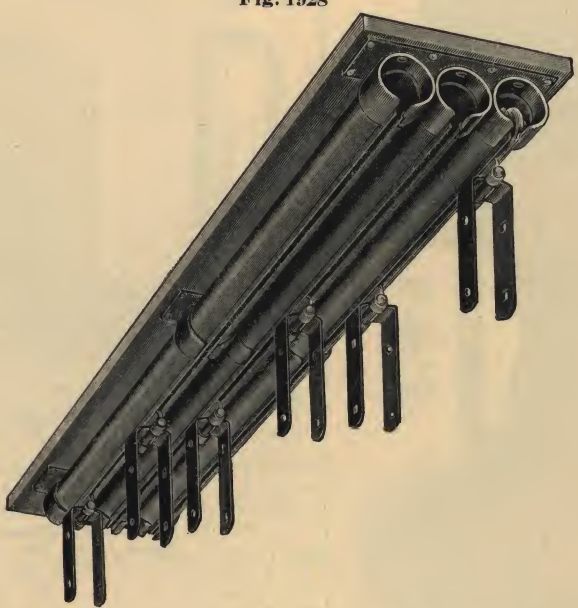


Fig. 1928 illustrates the Giant or New-Way Track as mounted on ceiling or on door header. Doors mounted in this way can be slid past each other, permitting passage or opening at any point.

Fig. 1932 **Fig. 1933** **Fig. 1934**

The above illustrations show the different styles of brackets as used on overhead track.

Fig. 1932 Single Bracket for one run of track.
Fig. 1933 Double Bracket for double run of track.
Fig. 1934 Triple Bracket for three tracks.

PRICE LIST.

Giant Track, per foot	(*Post*)	**$0.30**
New-Way Track, per foot	(*Pluff*)	**.27**
Single Bracket, per doz	(*Tin*) Giant (*Tinch*) New-Way	**2.25**
Double Bracket, per doz	(*Tindal*) Giant (*Tine*) New-Way	**4.50**
Triple Bracket, per doz	(*Ting*) Giant (*Tink*) New-Way	**6.75**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Patent Hay Rack or Hay Frame Fixtures.

The Modern Way of Building Hay Racks.

Why construct your hay racks in the old time way by using bolts and boring holes in the timbers, which method destroys fully one half of its strength, when you can procure a modern device and fixture at a very low cost, which is very quickly applied to the timbers and saves a greater part of the cost in constructing the rack?

By using these Hay Rack Fixtures the boring of holes in the timbers is not necessary. By their use the full strength of the timbers is retained, and does away with the holes, which simply collect water and hasten their decay.

MADE IN FOUR SIZES
Put up One Pair in a Neat Box.

Wheat or Cotton Rack Clamps.

7/16-inch Steel.

Fig. 1724

Fig. 1725

Figs. 1724 and 1725 illustrate The Myers Wheat and Cotton Rack Clamp as used to build racks for hauling sacked grain, baled hay or cotton in bales. When in place the sills and bottom cross pieces are securely clamped together, making a most substantial construction.

PRICE LIST, Represented by Fig. 1724.

Put up One Set (8 Clamps) in a Hard Wood Box.

No. 1, Myers Wheat or Cotton Rack Clamp for 2 x 8 Sills, per dozen sets. List .....(*Tart*).. **$21.00**

No. 2, Myers Wheat or Cotton Rack Clamp for 2 x 10 Sills, per dozen sets. List .....(*Tartar*).. **22.50**

Fig. 1225

Lumber Required to Build a Rack 7 x 16 Feet.

Have all two inch stuff dressed on all four sides and one inch stuff on one side.

Two pieces 2 x 8 x 16 feet long for bed sills.

Two pieces 2 x 4 x 14 feet long to cut in two for top cross pieces.

One piece 2 x 4 x 16 feet long for front ladder.

One piece 1½ x 4 x 16 feet long for bottom cross pieces.

Four boards 1 x 10 x 16 feet long for covering on side of ladder.

Two boards 1 in. x 12 in. x 16 feet for bottom of ladder not shown in cut.

The above is for No. 1 size. If the other sizes or styles are desired, you will have to regulate yourself accordingly. Have your bed sills 6 inches narrower in front than in rear. The fixtures provide for this, and you can turn in a smaller space.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Wenzelmann Patent Hay Rack Fixtures.

Malleable Iron Bracket.

The Modern Way of Building Hay Racks.

Fig. 1165

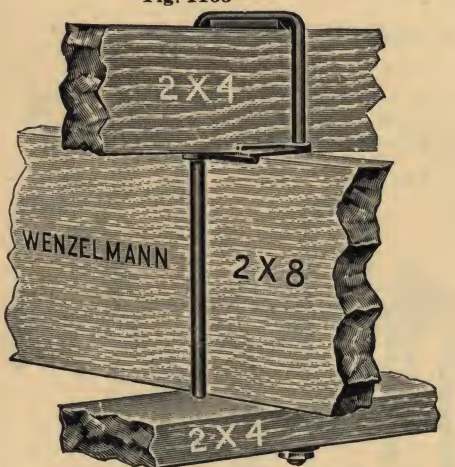
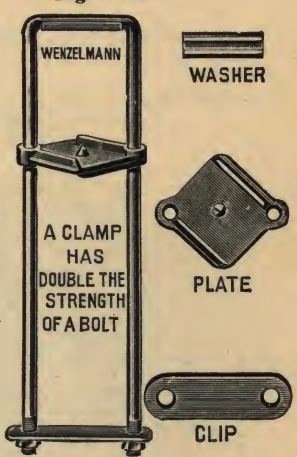


Fig. 1166



Why construct your hay racks in the old time way by using bolts and boring holes in the timbers, which method destroys fully one half of its strength, when you can procure a modern device, and fixture, at a very low cost, which is very quickly applied to the timbers, and saves a greater part of the cost in constructing the rack.

By using the Wenzelmann Hay Rack Fixture the boring of holes in the timbers is not necessary. By their use the full strength of the timbers is retained, and does away with the holes, which simply collect water and hasten their decay.

It requires a very short time to build a rack with the use of these fixtures, a monkey wrench and saw being about all the tools required.

Kindly refer to Figs. 1165 and 1166 and note the special features as follows:

THE INTERMEDIATE BRACKET adds much to the bearing surface at the cross section, and being studded and flanged, keeps the timbers from twisting or slipping.

THE CLAMPS are placed astride the timbers and have double the strength of bolts.

THE BED SILLS and cross pieces absolutely cannot twist out of shape when these fixtures are used, as is the case in the old method of construction with bolts, nails, etc.

THE GROOVED STEEL UPPER WASHER renders it impossible for the clamp to cut into the cross piece. The lower steel clip or washer keeps the bottom cross pieces from splitting.

One Set in a Box.

Fig. 1176

Shows manner in which these goods are put up.

PRICE LIST.

No. 0,	Wenzelmann Hay Rack Clamp, 12 inch, per dozen sets.	List.....(*Cab*)..	**$24.00**
No. 1,	" " " 14 " " " "	List.....(*Cac*)..	**24.00**
No. 2,	" " " 16 " " " "	List.....(*Cad*)..	**25.60**
No. 3,	" " " 18 " " " "	List.....(*Caf*)..	**27.20**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Take-Down Hay Rack Clamp.

PATENT APPLIED FOR.

Made Entirely of Steel and Malleable Iron.

A Perfect Clamp. No Holes in Timbers to Rot or Weaken Them.

ONE MAN CAN PUT IT ON OR REMOVE IT FROM WAGON.

Special Feature. The Hay Rack or Ladder can be taken apart by removing two pins, which enables the user to place the rack on the wagon or remove it in two sections and without assistance.

Fig. 1620

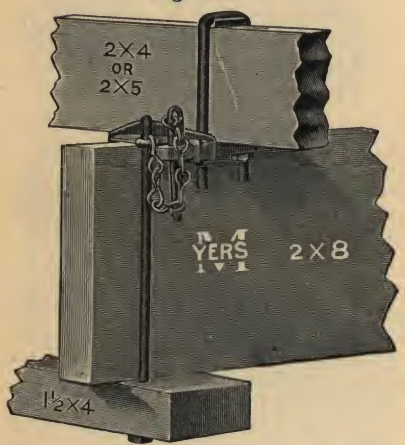
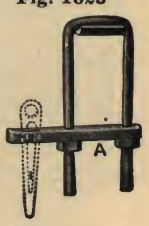


Fig. 1621

Fig. 1622

Fig. 1623



The above illustrations represent the Myers Take-Down Hay Rack Clamp, an entirely new departure from anything now on the market.

The Take-Down Clamp is made so as to enable the user to handle the rack in two sections. This is done by the removal of two pins provided for the purpose of holding the rack together. The fact that the rack can be separated in two parts enables the user to place the rack on the wagon or remove it without assistance. In addition to this, it gives you the bottom sills and cross pieces as a separate device for hauling lumber, wood, sacked grain, etc., and can also by the use of a set of stake irons be transformed into a hog rack.

Fig. 1620 illustrates the timbers clamped together.

Fig. 1621 illustrates the irons without the timbers and shows the means of holding the top part of the hay rack to the bed sills. The steel bar, letter "A", passes through a malleable iron loop and is held in position by the malleable key. The removal of this key permits the upper part of the ladder to be moved endwise a sufficient distance to withdraw the steel bar "A" from the malleable loop, after which the top section of the ladder can be removed.

Fig. 1622 represents the lower half of the clamp which holds the main sill 2 x 8 to the lower cross piece 1½ x 4.

Fig. 1623 represents the clamp that attaches the top section to the cross sills by means of the steel bar "A". The No. 6 clamp is made of sufficient size to use either 2 x 4 or 2 x 5 cross pieces.

The No. 7 clamp takes 2 x 10 sills and 2 x 6 cross timbers.

In all old style hay rack clamps the entire ladder is clamped together, making a very heavy article, usually weighing from 400 to 600 pounds. The main objection to it is that it is impossible for one man to remove or place it on the wagon without assistance.

PRICE LIST, Represented by Fig. 1621.

Put up One Set in a Hard Wood Box.

No. 6, Myers Take-Down Hay Rack Clamp, for 8 inch sill and 4 or 5 inch cross timbers, per dozen sets. List.....*(Pud)*.. **$36.00**

No. 7, Myers Take-Down Hay Rack Clamp, for 10 inch sill and 6 inch cross timbers, per dozen sets.....*(Qualm)*.. **39.00**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Take-Down Hay Rack Clamp.

PATENT APPLIED FOR.

Made Entirely of Steel and Malleable Iron.

A Perfect Clamp. No Holes in Timbers to Rot or Weaken Them.

Fig. 1625

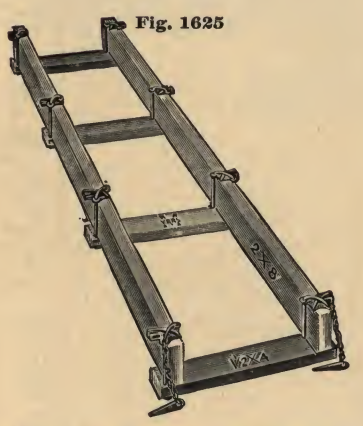


Fig. 1625 represents the bed sills after the top part has been removed.

Bottom section can be used for hog rack or for hauling lumber, wood or stone.

Fig. 1626

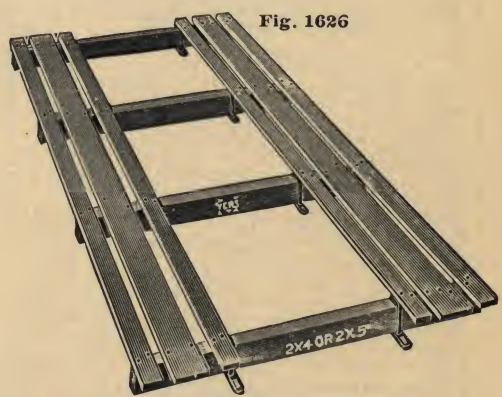


Fig. 1626 represents the top part of the ladder.

This is the most convenient form of hay rack clamp now on the market and is thoroughly recommended.

One size bracket makes any size rack. One man can put it on or remove it from wagon.

Fig. 1624

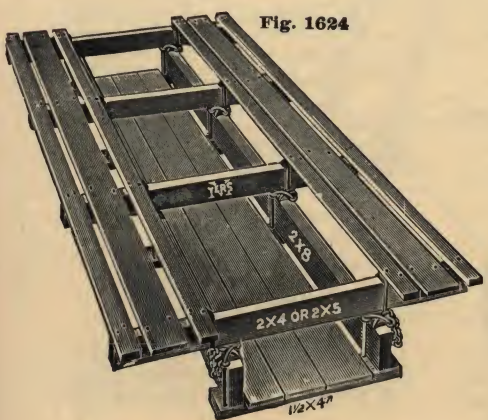


Fig. 1624 represents the ladder complete.

It can be taken apart by removing two pins, which enables the user to place the rack on the wagon or remove it in two sections and without assistance.

Fig. 1678

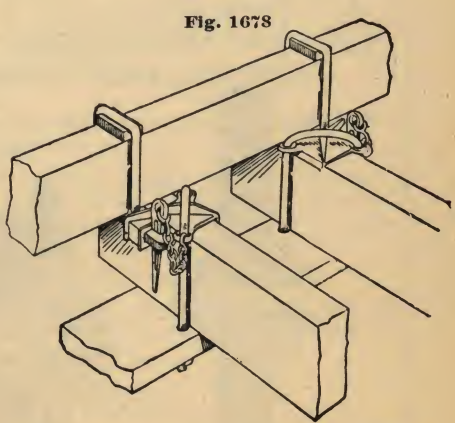


Fig. 1678 shows a section of hay ladder clamped together

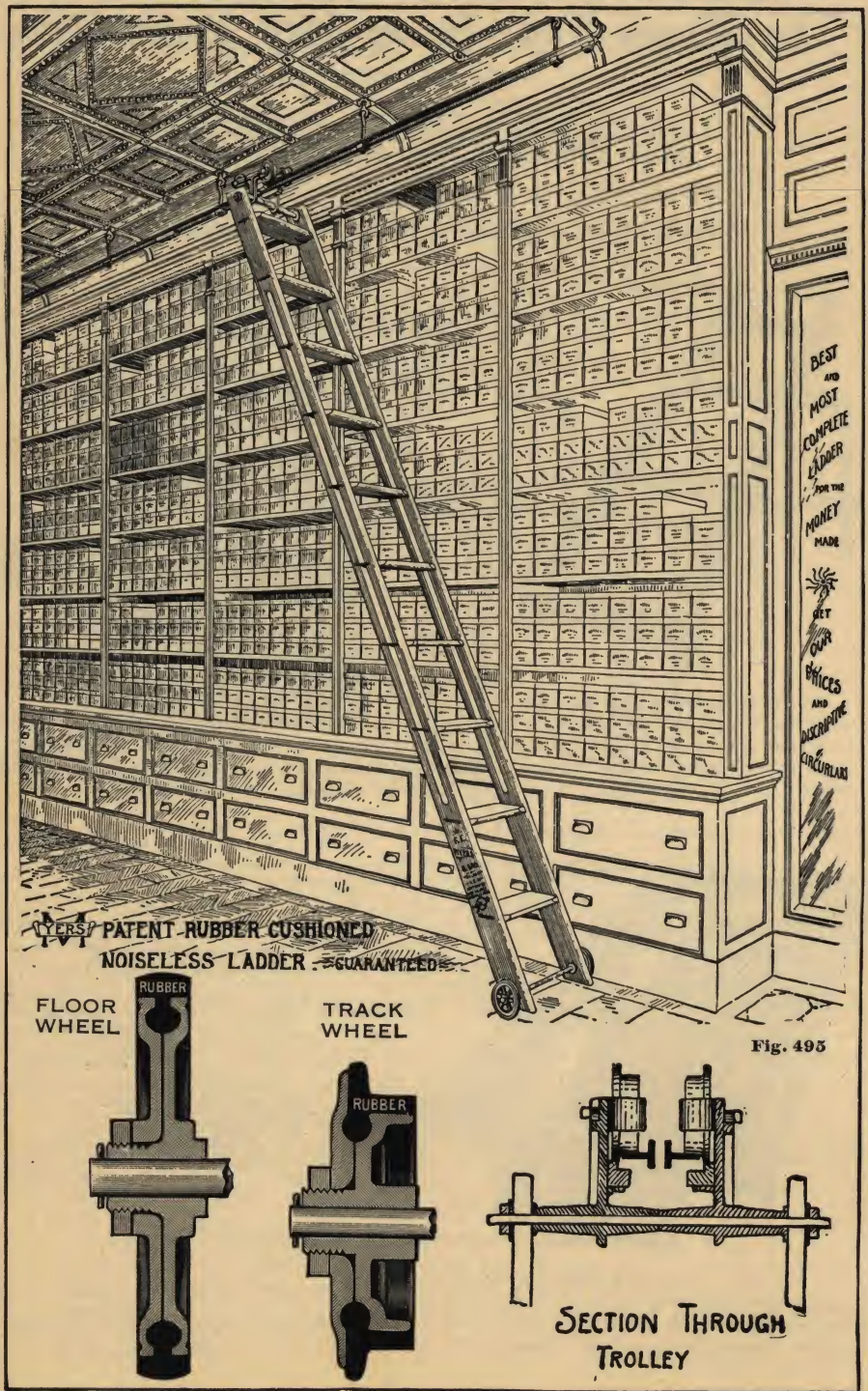

BEST AND MOST COMPLETE LADDER FOR THE MONEY MADE
GET OUR PRICES AND DESCRIPTIVE CIRCULARS
MYERS PATENT RUBBER CUSHIONED NOISELESS LADDER GUARANTEED
FLOOR WHEEL
RUBBER
TRACK WHEEL
RUBBER
SECTION THROUGH TROLLEY

Fig. 495

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

The Myers Cushion Tire Store Ladder.

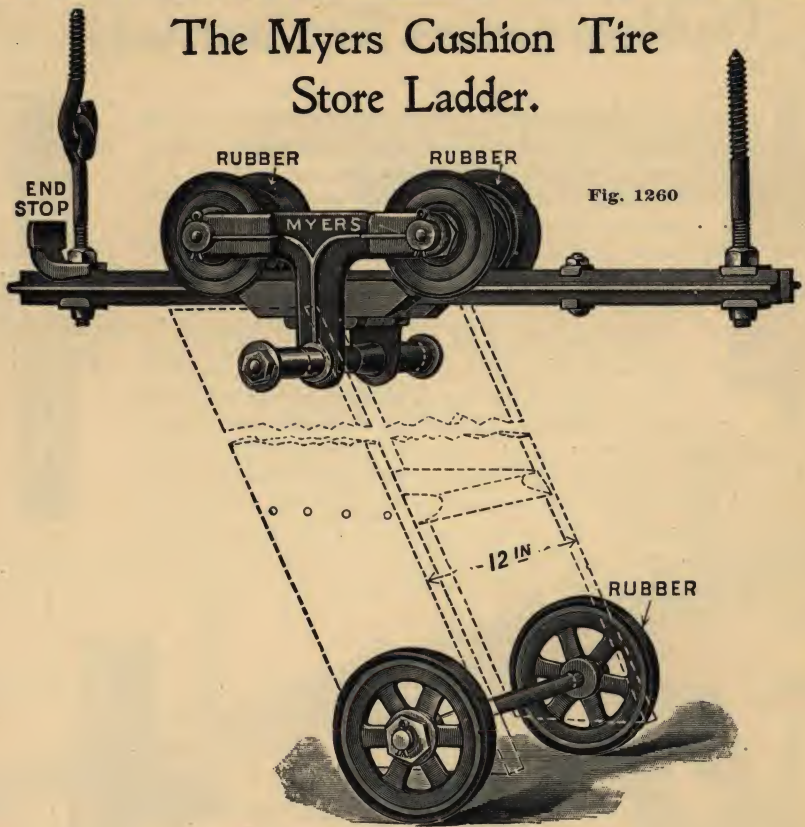


Fig. 1260

Fig. 1260 is an enlarged view showing the different parts in detail.

THE TRACK is our well known double angle steel rail, which is very neat and strong and is suspended from ceiling by means of lag screws, either jointed or rigid, or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be leveled on an uneven ceiling without the least trouble and without any blocking or bridging, as is the case in many other tracks.

THE LADDER is constructed of the best clear Georgia pine, nicely finished, filled and varnished; has open panel sides. The width of the ladder is 12 inches.

THE TROLLEY is self-adjusting, fitted with turned steel bearings and 3 inch anti-rattler wheels. turned and bored on lathe and fitted with *special rubber tires.*

THE FLOOR TRAVELERS are 5 inches in diameter, composed of metal sides with *rubber cushion tires* clamped in such a position as to be impossible to get off or come loose. These wheels are placed on a steel axle. With this style trolley, *which is noiseless*, we overcome a great objection in other ladders.

Directions for Fitting Store Ladder.

Give us the exact height of the ceiling and the length of each track, and we will do all the fitting at the factory. If the height of the ceiling varies, give us the height of ceiling at each end and center of each run of track.

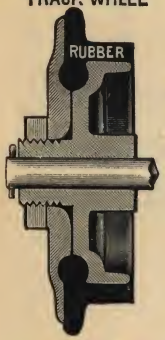
PRICE LIST OF STORE LADDER.

Ladder and trolley complete. Price .....(*Roam*).. **$27.00**
Track complete with hangers. Price per foot .....(*Roast*).. **.40**

Jointed Hanging Hook like cut at left recommended and always furnished unless others are specified

The Myers Cushion Tire Store Ladder

Fig. 1254
TRACK WHEEL



THE RUBBER TIRES used on Myers Store Ladders are made of a specially prepared rubber, shaped according to our own patented design. Are held securely in position by the wheel castings. By means of these Rubber Tires the ladder is made practically noiseless. They also do away with any jar or unpleasant sensation in running the ladder over an uneven surface.

Fig. 1254 illustrates the TROLLEY WHEEL as used on the overhead track on Myers Store Ladder. It is 3¼ in. in diameter. The cut illustrates the wheel in all its details. It is made of two parts which clamp around the enlarged portion of the rubber tire, and are held together by means of a nut and strong thread, holding the tire securely in position and preventing it from expanding or getting out of position under any circumstances. The wheel revolves on a turned steel axle.

Fig. 1255
FLOOR WHEEL

Fig. 1255 represents the FLOOR WHEEL as used on Myers Store Ladders and is constructed exactly the same as the Trolley Wheel above described. It is 5 inches in diameter.

Fig. 1257

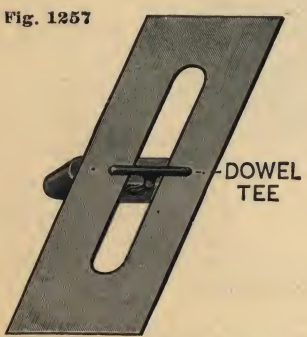


Fig. 1092

Rubber Tire Roller for Side of Ladder. Charged for Extra Required only for Slanting Floor

Fig. 1257 illustrates a section of the side of the Ladder, showing the end of the step and the manner in which it is connected to the side of the ladder by means of our Patented Malleable Dowel Tee. Each of the intermediate steps are fastened at each end in this manner. The Dowel Tee engages the outer side of the ladder frame, passes through underneath the step, and is attached by means of a heavy screw, thus preventing the ladder from spreading or springing away from the end of the step. The tread of the step is 5½ inches deep. This cut also illustrates the panel opening in the side of the ladder, which adds to its neatness of appearance.

Fig. 1092 illustrates the ROLLER for side of the ladder. This Roller is also fitted with rubber tire, and is intended to prevent the ladder from running against the counter or shelving when used on an uneven floor. It is not included in the regular price of the ladder, and is never used except under the above conditions, viz., on a floor that slopes toward the shelving. When furnished it is charged for extra.

The Myers Cushion Tire Store Ladder Track.

(*Track*) Fig. 824

Fig. 824 represents a section of double steel track used for Store Ladders. This cut also shows the joint or splicing clamp, and the manner in which the separate pieces of track are connected.

Fig. 1840 shows another section of the same track with the Hanging Hooks attached.

Patent Steel Track System.

Fig. 1840

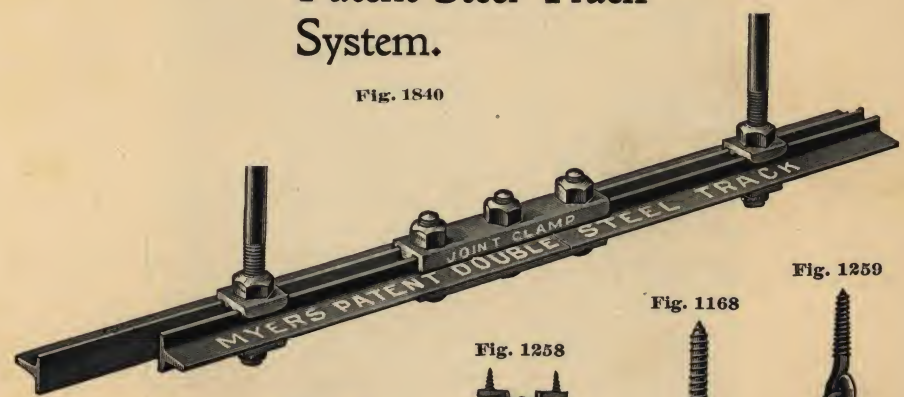


Fig. 1259

Fig. 1168

Fig. 1258

Fig. 1042

End Stop.

Fig. 1042 represents the END STOP. Two of these are furnished with each carrier, and are designed to prevent the trolley from running off the track at either end.

Fig. 1259 represents the jointed or screw eye hanging hook, which is regularly used for erecting Myers store ladder track, and is always furnished with the track, unless otherwise specified on order.

Fig. 1258 illustrates the Hanging Hook as used in connection with a flanged loop, that is attached to the ceiling by means of two heavy wood screws.

Fig. 1168 represents Hanging Hook with lag screw point. This forms a rigid track.

The Myers Double Angle Steel Track as furnished for Cushion Tire Store Ladders, is both substantial and simple in construction. When the track is clamped together it becomes very stiff, and is the most complete device known for the purpose. It is easily put together; no riveting; a wrench is the only tool needed. The rails are made to our special order, and are what is known as rolled carbon. They are uniformly stiff and hard.

The Myers Cushion Tire Store Ladder.

Fig. 1252

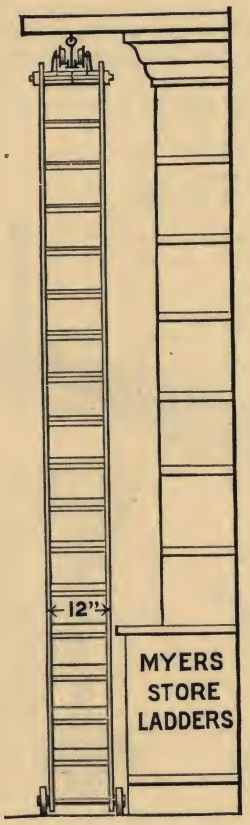


Fig. 1253

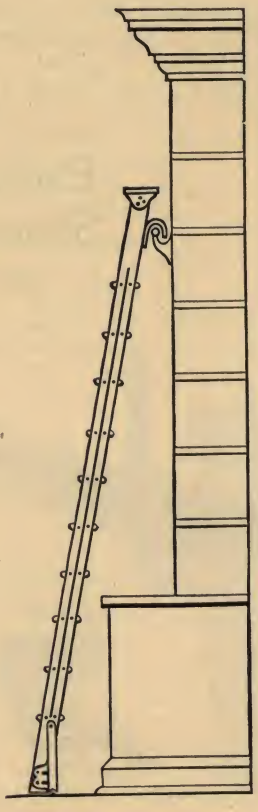


Fig. 1252 illustrates the end of shelving, and a front view of the Myers Store Ladder, showing clearly that this style ladder takes up no more space than that occupied by a ladder facing the shelving. It also illustrates the fact that the user can reach the topmost shelf from the ladder without an extra effort. This is the only style of ladder we make.

Fig. 1253 illustrates other makes of ladders which face the shelving, and shows clearly that the space occupied by the ladder is just as great as that of the Myers style of ladder.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

The Myers Cushion Tire Store Ladder.

As used in connection with the Main and Intermediate Distributing Frames, also Relay and Coil Racks in Large Telephone Exchanges.

Fig. 1241

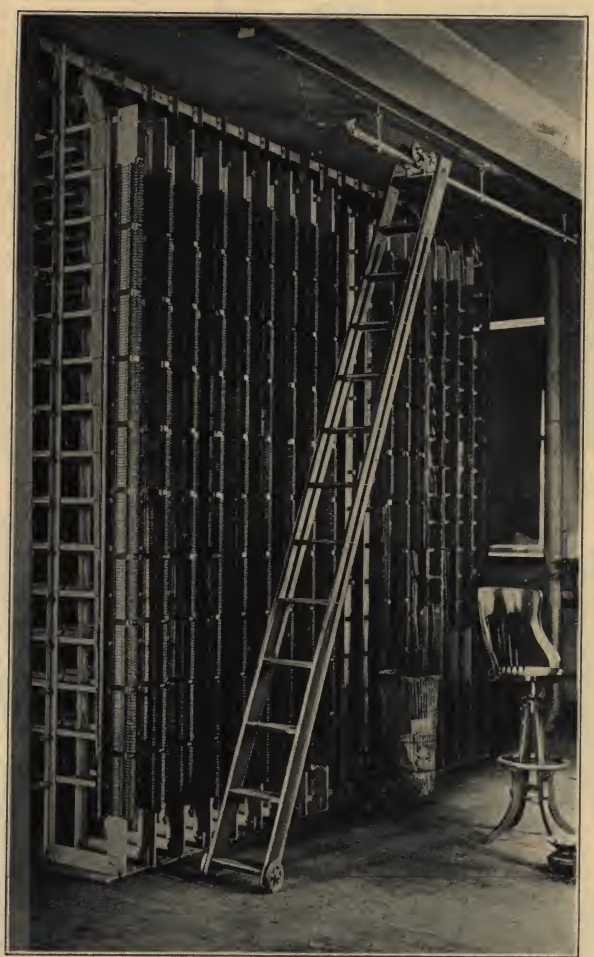


Fig. 1241 illustrates the Myers Noiseless Cushion Tire Store Ladder, as used in large Telephone Exchanges. The ladders extend from the floor to the ceiling, are adjacent to and move parallel with the main and intermediate distributing frames, also Relay and Coil Racks. By their use the workmen have quick and easy access to any part of these frames.

Give us the length of each track required, and height from floor to ceiling, and we will fit the ladder complete at our factory, without extra charge, so that it can be installed by any ordinary workmen.

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Myers Porch Swing.

All Hard Wood.

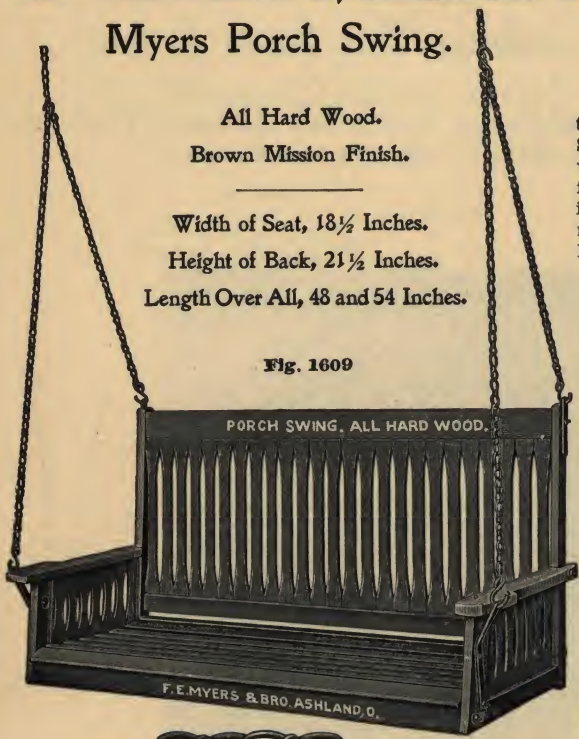
Brown Mission Finish.

Width of Seat, 18½ Inches.

Height of Back, 21½ Inches.

Length Over All, 48 and 54 Inches.

Fig. 1609



STYLE OF CHAIN USED

Fig. 1480

Fig. 1609 illustrates the Myers Porch Swing, made of hard wood throughout, formed seat, galvanized chains and hooks, nicely finished in Brown Mission.

PRICE LIST, Fig. 1609.

No. 5, Porch Swing, 48 inches long, includes chains and hooks. (*Quilt*)..... **$6.75**

No. 6, Porch Swing, 54 inches long, includes chains and hooks. (*Quince*)..... **$7.50**

Fig. 1480 shows Swing folded for shipping.

The Ashland Low Down Roller Lawn Swing.

Fig. 1200

With Flexible Back. All Hard Wood.

Accommodates Four Passengers.

The entire height is 48 inches; width 36 inches, and length 7 feet. It is made entirely of hard wood, nicely finished and painted.

Fig. 1200 illustrates our new *Low Down Roller Swing*, a new and novel device in which we have overcome all objectionable features in other swings. Has gliding motion, moving 44 inches horizontally.

PRICE LIST, Fig. 1200.

Low Down Roller Lawn Swing, weight 124 pounds ..... (*Safer*).. **$15.50**

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

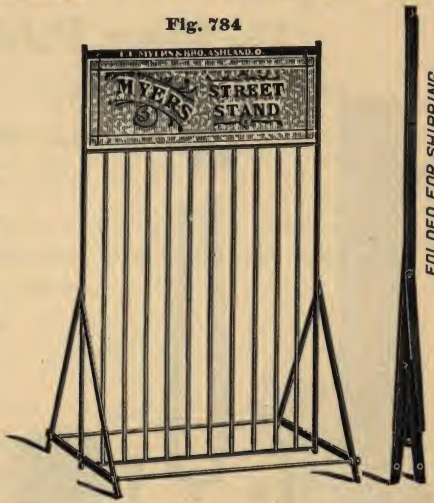
The Myers Street Stand.

Width Over All, 22 Inches.

Made Entirely of Spring Steel Finished in Aluminum Bronze. Holds Eight Wheels. Folds in Compact Bundle for Shipping.

List price, Fig. 784, per dozen.....(*Ruth*).. List **$66.50**

Fig. 784

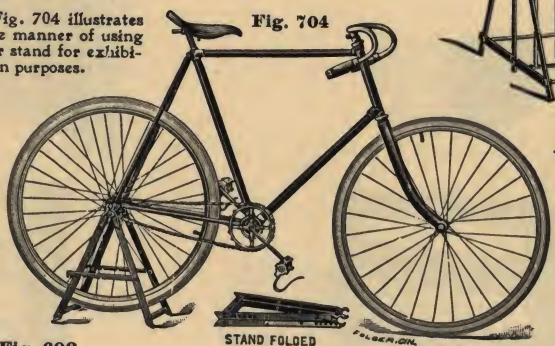


FOLDED FOR SHIPPING

The Myers Bicycle Stand and Home Trainer.

Fig. 704 illustrates the manner of using our stand for exhibition purposes.

Fig. 704



Aluminum Finish. Spring Steel. Fits Any Wheel.

The Only Practical Exhibition Stand on the Market.

Allows the Purchaser to Mount the Wheel.

Fig. 698

Fig. 697

Fig. 703

Shows Home Trainer Complete.

Figs. 697, 698 and 703 illustrate the Myers Bike Stand, which for simplicity, strength, durability, beauty and practicability is *without a rival.*

This stand is designed *to assist* the salesman in showing up his wheel. *It is attached to nuts on outside of rear wheel* and supports the wheel at all times. The wheel can be placed in any position, either in show window or salesroom. When the wheel is exhibited to a customer it can be placed to the best advantage, and leaves the salesman free to show up all working parts without being hampered by having to hold the wheel. *It enables the customer to mount the wheel and try it,* which cannot be said of *any other* stand. When its advantages are known, dealers will have one for each wheel on exhibition. It does not mar the wheel or detract from its appearance—in fact, it adds to its beauty. It leaves all outlines of wheel clear and the wheel in its natural position.

PRICE LIST.

		List
Myers Bicycle Stand, Fig. 697. Price, per dozen	(*Ruby*)..	**$16.50**
Myers Home Trainer Attachment only. Price, per dozen	(*Ruble*)..	**13.50**
Myers Bicycle Stand and Home Trainer, complete, Fig. 703. Price, per dozen	(*Royal*).	**30.00**

The Myers Patent Gate Hanger.

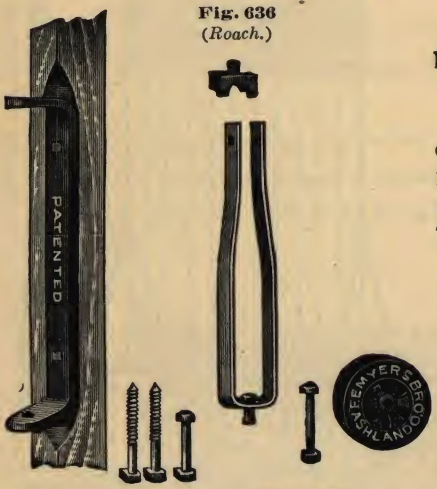


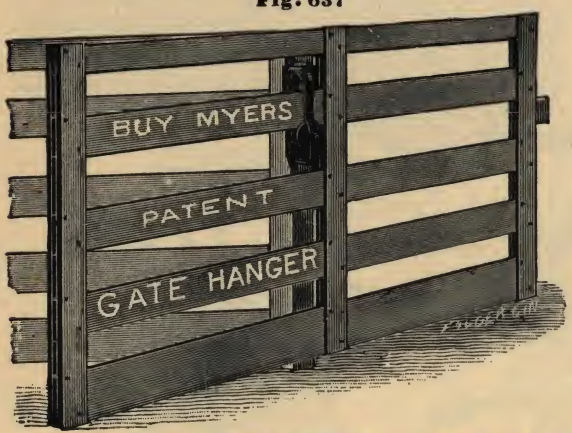
Fig. 636
(Roach.)

Material Required to Erect a Myers Patent Farm Gate.

One Myers Patent Hanger.
Five boards 14 feet long.
Six boards 4 feet 8 inches.
Two posts.

Fig. 635
(Roach.)

Fig. 637



Excels in Every Desirable Feature.

Thousands in use. Fully warranted. No experiment.
It is the gate hanger you want for the following reasons:

1. It is the most practical device known for hanging and operating a common farm gate.
2. It is the easiest article to sell and the most satisfactory to buy.
3. The price is so low, and the hanger so simple and perfect in every respect, that almost every farmer becomes a purchaser as soon as he sees it.
4. It is designed, as the cut clearly shows, for a style of gate that every farmer has or can make cheaper and easier than any other.
5. The cut shows how quickly and easily the gate can be hung and raised to clear deep snow or other obstructions when desired.
6. It is double pivoted; supports a gate perpendicularly, and is so strong and simple it cannot get out of order.
7. The weight of the gate hangs on the center and at its strongest point.
8. The hanger is made of steel, and is fastened near the center of the post with two lag bolts, and does not project or have weak points.
9. It is put together with bolts; adjustable for any length or weight of gate and adapted for any state or farming community.
10. It can be sold cheaper than any other and throughout the entire season at a profit, regardless of what others do, as it is fully protected by letters patent.

List price, per dozen.....*(Runner)*..**$12.80**

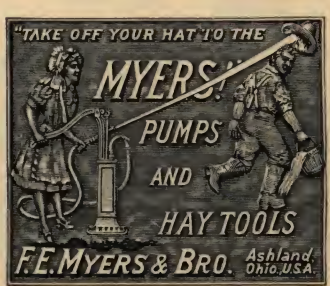
F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Electrotypes Furnished Free

For Catalog, Newspaper and Letterhead

ADVERTISING.

We Will Be Glad to Supply Electrotypes of Any Articles Shown in This Catalog. Can Be Furnished in Different Sizes for Above Work as Shown Below.



F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Electrotypes Furnished Free

For Catalog, Newspaper and Letterhead

ADVERTISING.

We Will Be Glad to Supply Electrotypes of Any Articles Shown in This Catalog. Can Be Furnished in Different Sizes for Above Work.

Fig. 1898

Fig. 1422

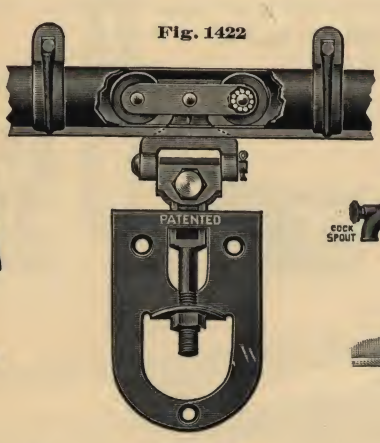


Fig. 902

Fig. 1726

Fig. 1508

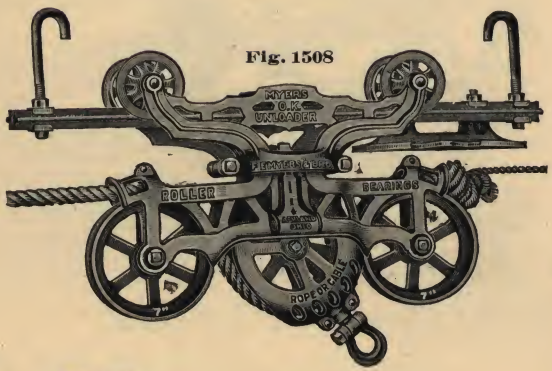


Fig. 1478

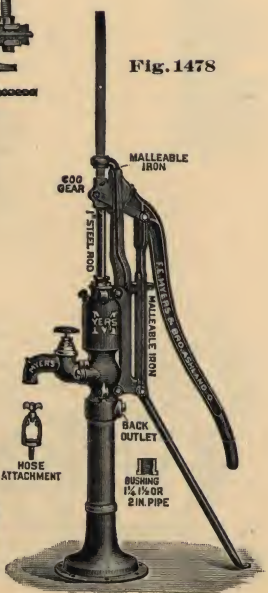


Fig. 1866

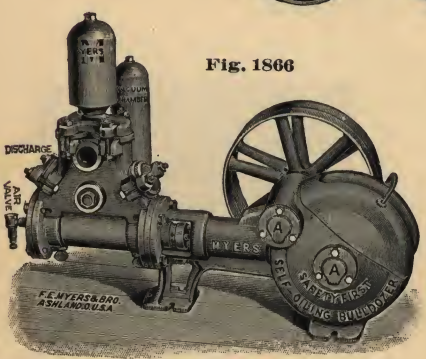


Fig. 1438

REPAIRS

FOR ALL MYERS PUMPS.

NUMERICAL LIST

Includes All Numbered Parts.

Order by Number.

This List is Followed by List of Unnumbered Parts, Page 382, Covering Steel or Machined Brass Parts that do not have numbers cast on.

Pages 406 to 415
HAY TOOLS, DOOR HANGERS, GATE HANGERS AND STORE LADDERS.

Telegraph Cypher, ... Page 416
Export Weights, ... Page 417
Shipping Weights, ... Page 419
Code Index, , ... Page 423
Figure Index, ... Page 426
Number Index, ... Page 428
General Index, ... Page 429

ELECTROTYPES FURNISHED FREE

For Catalog, Newspaper and Letterhead ADVERTISING.

We will be glad to supply electrotypes of any articles shown in this Catalog. Can be furnished in different sizes for above work.

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Price List of Repairs for Myers Pumps.

NUMERICALLY ARRANGED.

All Cast Repairs for Myers Goods have a NUMBER CAST ON THEM. No two parts carry the same number—Insist on your customer giving you the number cast on the repair wanted—then order from factory using the NUMBER of PART REQUIRED.

Steel or Machined Brass Parts that do not have Numbers Cast on will be found under list of un-numbered parts beginning on page 382. In ordering these parts give size and name of article and state what it is for.

By following the above you will save delay in shipment, and annoyance to yourself.

No. Rep.		Price.	Complete.
1.	Handle, 29 inches long, Deep Well	$ 1 40	
2.	Handle, 24 inches long, Shallow Well	1 15	
3.	Spout	85	
4.	Air Chamber, Old Style, Acorn	1 85	
5.	Base Plate, Old Style (abandoned)	1 85	
6.	Lower Cap for 3 inch Cylinder, Iron Seat, Bolt	1 10,	$1 70
7.	Base Plate for Straight Barrel Pump	1 80	
9.	Bucket Casting, Iron, for 3 inch Cylinder, Lower	40	
10.	Bucket Casting, Iron, for 3 inch Cylinder, Upper	40	
11.	Washer, Iron, for 2½ inch Plunger	15	
14.	Base Plate for Nos. 20, 21, 22 and 23 Old Style	2 15	
15.	Spout, Gooseneck	65	
16.	Fulcrum Head for Windmill Pump, Old Style No. 20	4 20	
17.	Handle, 29 inches long, for No. 20 Old Style Pump	1 70	
20.	Fulcrum for Wheeler Head, used on No. 20 Style	55	
21.	Brace Bands for all 1½ inch Pipe Pumps	40	
24.	Connection for Piston Rod, ⅜ inch Pipe to ½ x 1 inch Flat Bar	35	
25.	Brace for all Force Pumps, Cast Iron	85	
26.	Lower Cap for 3½ inch Cylinder, Iron Seat, to bolt on	1 10,	1 95
27.	Washer, Iron, for 3½ inch Plunger	20	
28.	Bucket Casting, Iron, for 3½ inch Cylinder, Lower	45	
29.	Bucket Casting, Iron, for 3½ inch Cylinder, Upper	45	
31.	Cap for Lower End of Stock of Old No. 20 Pump	1 00	
32.	Spout, Old Style	65	
33.	Bucket Stem, Malleable, for Nos. 1, 2, 3, 8, 9 and 10 Pumps	65	
34.	Bucket Stem, Malleable, Upper, for Deep Well Pump (abandoned)	55	
35.	Strainer for 1¼ inch Pipe	65	
36.	Strainer for 1 inch Pipe	65	
37.	Strainer for 1½ inch Pipe	65	
38.	Bucket Stem, Malleable, Lower, for Fig. 212 Cylinder	65	
39.	Guide for Piston Rod, below Base	45	
41.	Washer, under Rubber Disc on 4 inch Cylinder Pump	35	
42.	Washer, Iron, for 4 inch Plunger	35	
43.	Weight for 4 inch Check Valve, for Iron Seat	30	
44.	Bucket Casting, Iron, for 4 inch Cylinder, Lower	55	
45.	Bucket Casting, Iron, for 4 inch Cylinder, Upper	55	
46.	Spout, Gooseneck, 1¼ inch	1 10	
48.	Air Chamber, with Spout cast on	3 15	
49.	Hose Connection for 1¼ inch Spout	55	
50.	Lever for Old Style Plug, Three-Way	20	
51.	Brace Band for No. 20 Pump	85	
52.	Lever for Old Style Square End Plug, Three-Way	20	
54.	Base for Adjustable Pump (abandoned)	2 15	
55.	Handle, 38 inches long, for No. 20 Style, Very Deep Well	2 15	
56.	Air Chamber for Branch Pipe Pump	2 45	
57.	Cap or Washer for Brace Band No. 51 on No. 20 Pump	15	
58.	Weight for 3 inch Check Valve	20	
60.	Base Plate for No. 40, 1½ inch Pipe (abandoned)	2 15	
61.	Handle, 29 inches long, for Windmill Head, Branch Pipe	2 15	
62.	Guide for Windmill Bar, Old Style	75	
63.	Hose Connection for ¾ inch Hose for 1 inch Spout (abandoned)	20	
64.	Guide for Windmill Bar, Old Style, Right Side	45	
65.	Guide for Windmill Bar, Old Style, Left Side	45	
66.	Washer, Iron, for 3 inch Plunger	15	
67.	Connection for Piston Rod to ½ x 1 inch Flat Bar, No. 20 Pump	20	
68.	Reservoir Head, Old Style Lift	2 80	
69.	Standard for Ashland Siphon Spout, Lift and Force Pumps	5 60	
70.	Standard for Ashland Siphon Spout, Lift and Force Pumps, Plain or Windmill Top	5 60	
71.	Link to attach Handle to Flat Windmill Bar, Force Pump	30	
72.	Link to attach Handle to Flat Windmill Bar, Lift Pump	20	
75.	Couplings for ⅝ inch Rod to ⅜ inch Rod, Malleable, per pound	40	
76.	Couplings for ⅜ inch Rod marked A. A., Malleable, per pound	40	
77.	Couplings for ½ inch Rod to ⅜ inch Rod, Malleable, per pound	40	
81.	Lower Cap for 3½ inch Cylinder, Glass Seat, Old Style Bolt	1 10,	2 80
82.	Lower Cap for 3 inch Cylinder, Old Style Glass Seat, Screw on	1 10,	2 60
83.	Lower Cap for 3½ inch Cylinder, Old Style Glass Seat, Screw on	1 10,	2 60
84.	Reservoir Head for Nos. 40 and 41 (abandoned)	2 45	
86.	Fulcrum Head for Nos. 40 and 41 Pumps (abandoned)	2 15	
87.	Brace Band for Nos. 40 and 41 Pumps (abandoned)	75	
88.	Base Plate for Nos. 40 and 41 Pumps, Drill Well (abandoned)	2 15	
89.	Spout, Gooseneck, 1 inch	75	
90.	Bucket Stem, Short, Malleable, Upper, for Deep Well Pump	75	
93.	Foot Valve, 1 inch, Upper Half	1 10	
94.	Foot Valve, 1 inch, Lower Half	1 10	
96.	Air Chamber, Windmill Guide Cast on	3 50	

Rep. No.		Price.	Complete.
97.	Cylinder Shell, Brass, with Cast Projection for 2½ inch No. 7	$4 20	
98.	Fulcrum Head for Branch Pipe Pumps, Old Style, Close Elbow	2 15	
99.	Handle, 38 inches long, for Very Deep Wells, Plain Head	2 15	
100.	Cylinder Shell, Brass, with Cast Projection for 2½ inch No. 7 Old Close Elbow	4 20	
101.	Base Plate for Branch Pipe Pumps	1 90	
102.	Tee with Long Elbow for Pipe, Malleable	1 10	
103.	Tee with Short Elbow for Pipe, Malleable	1 10	
104.	Upper Cap for 2½ inch Brass Cylinder, Inside Attachment	1 10	
106.	Fulcrum Head for Branch Pipe Pump, with Windmill Guide	2 80	
107.	Upper Cap for 3 inch Brass Cylinder, Inside Attachment	1 45	
109.	Head with Spout, Cyclone Force Tank Pump	5 60	
110.	Base Plate for Cyclone Tank Pump, Force or Lift	3 50	
111.	Lower Cap for 4 inch Cylinder, Cyclone Tank Pump, Pipe Cylinder (abandoned)	1 75	
112.	Oscillating Fulcrum, Right, Cyclone Tank Pump	75	
113.	Oscillating Fulcrum, Left, Cyclone Tank Pump	75	
114.	Fulcrum Head for Branch Pipe Pump, Close Elbow	2 45	
115.	Lower Cap for 2½ inch Brass Cylinder, Glass Seat, Inside Attachment	1 40,	$2 45
116.	Bucket Casting, Brass, Upper, for 3 inch Cylinder	1 05	
117.	Bucket Casting, Brass, Lower, for 3 inch Cylinder	1 10	
118.	Bucket Casting, Brass, Lower, for 2½ inch Cylinder	1 05	
119.	Lower Cap for 3½ inch Brass Cylinder, Inside Attachment, Glass Seat	1 80,	3 50
120.	Strainer, one half, for 2 inch Pipe	35	
122.	Upper Cap for 2¼ inch Brass Cylinder, Inside Attachment	1 10	
124.	Upper Cap for 3½ inch Brass Cylinder, Inside Attachment	1 40	
125.	Oscillating Link, Malleable, Cyclone or Geyser Tank Pump	1 25	
126.	Cap, Lower, for 4 inch Cylinder, Iron Seat, Cyclone Tank Pump	1 80,	2 70
127.	Bucket Casting, Brass, Upper Part, for 2¼ inch Brass Cylinder	65	
128.	Bucket Casting, Brass, Lower Part, for 2¼ inch Brass Cylinder	85	
129.	Coupling for ⅜ inch Steel Rod, Malleable, A. A.	20	
130.	Base Plate for No. 40, Casing (abandoned)	2 15	
132.	Lower Cap for 3 inch Brass Cylinder, Inside Attachment, Glass Seat	1 80,	2 80
136.	Handle, Malleable, Cyclone or Geyser Pump, Left Side	1 40	
137.	Handle, Malleable, Cyclone or Geyser Pump, Right Side	1 40	
138.	Guide for Piston Rod, Cyclone Tank Pump	1 40	
139.	Bushing for Piston Guide, Cyclone Tank Pump	40	
140.	Head with Spout, Cyclone Lift Pump	4 20	
141.	Oscillating Fulcrum, Cyclone Well Pump, Right Side	1 05	
142.	Oscillating Fulcrum, Cyclone Well Pump, Left Side	1 05	
143.	Foot Valve, 1¼ inch, Lower Half	85	
144.	Foot Valve, 1¼ inch, Upper Half	65	
145.	Lower Cap for 3 inch Cylinder, Outside Attachment, Iron Seat, to Screw on (abandoned)	1 70	
146.	Lower Cap for 3½ inch Cylinder, Outside Attachment, Iron Seat, to Screw on (abandoned)	1 70	
147.	Piston Rod Guide for No. 3 and No. 10 Pumps	45	
148.	Upper Cap, Y Shape, for 3½ inch Cylinder, 1½ inch Pipe	2 15,	4 50
149.	Upper Cap, Y Shape, for 3 inch Cylinder, 1¼ inch Pipe	1 70,	3 90
150.	Upper Cap, Y Shape, for 2½ inch Cylinder, 1¼ inch Pipe	1 70,	3 50
151.	Shell over Submerged Cylinder used on No. 74 and No. 75 Pumps	3 15,	7 85
152.	Standard for Force Pump, Plain Head (state size pipe—1¼ or 1½ inch)	6 50	
153.	Strainer, one half, for 2 inch Hose, Enlarged Ends	35,	65
154.	Lower Cap for 3 inch Cylinder, Porcelain, Outside Cap, Glass Seat	1 70,	3 15
155.	Projection, Casting only, for 3 inch Cylinder Branch Pipe Pump	2 15	
156.	Hose Attachment, Cyclone Force, 1¼ inch Hose	1 05	
157.	Weight for 3 inch Check Valve, used in Cap No. 154	20	
158.	Projection, Casting only, for 3½ inch Cylinder Branch Pipe Pump	2 15	
159.	Lower Cap for 3 inch Cylinder, Bolt Cap, Glass Seat	1 70,	3 15
160.	Strainer, one half, for 2 inch Hose, Old Style	35	
161.	Cylinder Shell, 4 inch, Brass Lined, for Cyclone Tank Pump	7 00	
162.	Shell over Submerged Cylinder, used on Nos. 70 or 71 Pumps	2 45,	6 70
163.	Spout, Gooseneck, Union Nut Attachment, 1 inch Discharge	1 40	
164.	Projection, Casting only, for 2½ inch Cylinder Branch Pipe Pump	2 15	
165.	Bucket Stem, Upper, for Deep Well Pump, Rubber Disc (abandoned)	65	
166.	Lower Cap for 3½ inch Cylinder, Porcelain, Outside Cap, Glass Seat	2 15,	3 50
167.	Shell over Submerged Cylinder, used on Nos. 72 or 73 Pumps	2 80,	6 75
168.	Lower Cap for 3½ inch Cylinder, Glass Seat, Bolt Cap	1 70,	3 40
169.	Coupling and Disc for Upper Bucket, 2 and 2½ inch Tubular Well Pump	65	
170.	Base Plate for Cyclone Tank, Cylinder No. 161	3 50	
171.	Eye for Piston Rod, Malleable, for ⅜ inch Pipe	55	
173.	Standard for Force Pump, Windmill Head (state size of pipe—1¼ or 1½ inch)	7 00	
174.	Eye for Piston Rod, Malleable, for ½ inch Rod	55	
176.	Cross Head for Piston, Cyclone Pump, Old	2 15	
177.	Hose Connection to attach ¾ inch Hose to 1¼ inch Spout	35	
178.	Discharge Pipe, Cast, with Union End, used in Stands Nos. 152 and 173	1 40	
179.	Hose Connection to attach 1 inch Hose to 1¼ inch Spout	35	
180.	Union Connection, ¾ inch Discharge, for Stands Nos. 152 and 173	55	
181.	Head, with Spout, Cyclone Well Force Pump, 2 inch Pipe	5 60	
182.	Link for Cyclone Well Pump Handle, Right	65	
183.	Link for Cyclone Well Pump Handle, Left	65	
184.	Spout, Gooseneck, 1 inch Branch Pipe Pump	85	
186.	Weight for End of Handle, 7 pounds	1 40	
187.	Base Plate for Cyclone Set Length, Lift or Force, 2 inch Pipe	2 45	
188.	Cylinder Shell, 4 x 20 inches, Cyclone Well Pump	5 60	
189.	Handle Socket for Wood Handle	1 70	
190.	Bushing to change No. 4 to Single Acting	1 00	
191.	Connection for Piston Rod, ½ inch Rod to ½ x 1 inch Flat Bar	35	
193.	Reservoir Head, Old Style, Tapped for 1¼ inch Pipe	2 80	
194.	Foot Valve, 1½ inch, Lower Half	1 25	
195.	Foot Valve, 1½ inch, Upper Half	1 00	

Rep. No.		Price.	Complete.
197.	Overflow Valve, 3 inches	$0 55	
198.	Upper Cap for 4 inch Brass Cylinder, Inside Attachment	1 80	
199.	Hose Band for Suction Hose, Cyclone	65	
200.	Cast Nozzle, 1¼ inch	65	
202.	Plunger Stem, Cast, Upper, Iron Disc for 3 inch Pump	55	
203.	Plunger Stem, Cast, Upper, Iron Disc for 3½ inch Pump	55	
204.	Plunger Stem, Cast, Upper, Iron Disc for 2½ inch Pump	55	
205.	Bucket Casting, Iron, for 3½ inch Cylinder, ⅜ inch Hole, Steel Rod	45	
206.	Head, Straight, for Branch Pipe Pump	2 45	
208.	Plunger Stem, Cast, Upper, Iron Disc for 4 inch Pump, ½ inch Rod both ends	65	
209.	Upper Cap, Y Shape, for 4 inch Cylinder, 1½ inch Pipe	2 45,	$5 60
210.	Base Plate for Improved No. 20 Three-Way, 2 Sizes, 2½ x 1½ inch Pipe	2 45	
211.	Standard for Ashland Lift Pump	5 60	
212.	Reducer for No. 80 Pump	1 10	
213.	Bucket Casting, Iron, for 2½ inch Cylinder, ⅜ inch Hole	30	
214.	Base Plate for Improved No. 20, with Elbow cast in	2 80	
215.	Bucket Casting, Iron, for 2½ inch Cylinder, ⅜ inch Hole, Upper	30	
216.	Base Plate, Tapped 3 inch Suction, 2 inch Discharge, for California Working Head	4 20	
217.	Cross Head for California Working Head (abandoned)	2 80	
218.	Standard for Ashland Lift Pump	5 60	
219.	Connection for Wood Rod, California Working Head	2 15	
221.	Foot Valve, 2 inch, Upper Half	1 40	
222.	Hose Attachment for 1 inch Hose, Cyclone Pump	1 05	
223.	Lower Cap for 3 inch Cylinder, Porcelain, Inside Attachment	1 40,	2 00
224.	Coupling for Wood Rod, Male End	20	
225.	Coupling for Wood Rod, Female End	20	
226.	Head, Wheeler, for No. 20 Style, 6 inch Stroke	4 20	
227.	Connection for Piston Rod, ½ inch Rod to 1 x $\frac{5}{16}$ inch Flat Bar	35	
228.	Bucket Casting, Brass, Lower Half, 3½ inch Cylinder	1 40	
229.	Bucket Casting, Brass, Upper Half, 3½ inch Cylinder	1 40	
231.	Bucket Casting, Iron, for 3½ inch Cylinder, ⅜ inch Hole	40	
232.	Body for Vertical Three-Way	2 80	
233.	Spout, Gooseneck, 1 inch, for Vertical Three-Way	1 80,	3 35
234.	Bucket Casting, Iron, for 4 inch Cylinder, ½ inch Hole	50	
235.	Elbow for Vertical Three-Way, Malleable, Size 1 inch	55	
236.	Rod Connection to Cam Lever, for Vertical Three-Way	30	
237.	Bucket Casting, Iron, for 3 inch Cylinder, ⅜ inch Hole	40	
238.	Bucket Casting, Iron, for 4 inch Cylinder, ½ inch Hole	50	
239.	Cam Lever for Vertical Three-Way, fits all Pumps	65	
240.	Bucket Casting, Iron, for 4 inch Cylinder, ½ inch Hole, Pipe Size	50	
241.	Bucket Casting, Iron, for 3 inch Cylinder, ⅜ inch Hole	40	
242.	Bucket Casting, Iron, for 4 inch Cylinder, ½ inch Hole, Rod Size	50	
243.	Bushing Seat for Vertical Three-Way	1 05	
244.	Cup Holder, Malleable	15	
245.	Foot Valve, 2 inch, Lower Half	1 70	
246.	Lower Cap for 3 inch Cylinder, Porcelain, Inside Attachment	1 40	
247.	Reducer for Head on Cyclone Set Length Lift	2 15	
248.	Standard for Ashland Lift Pump	5 60	
250.	Spout, Gooseneck, 1¼ inch Vertical Three-Way	2 15,	3 70
251.	Union Nut for Elbow on Vertical Three-Way	40	
252.	Reservoir Head for Heavy Tubular Well Pump	*3 50*	
253.	*Standard for Heavy Tubular Well Lift Pump*	*5 60*	
255.	*Projection for Imperial and Regulator Pumps, for Vertical Three-Way, 1 inch Discharge*	4 20	
257	Base Plate for Branch Pipe Pump, with Vertical Three-Way	1 90	
259.	Projection for Stuffing Box on Fig. 402 Pump, 2½ inch Pipe	3 50.	5 30
260.	Head, Wheeler, for Regulator Pump to use with Wheel, Old Style	5 60	
261.	Standard for Windmill Regulator Pump	7 00	
262.	Base Plate for Tubular Well Pump, Fig. 402	1 90	
263.	Nozzle for 1 inch Hose, Cast	50	
264.	Lower Cap for 3 inch Cylinder, Outside Attachment, Brass Lined or Polished, Iron Seat	1 70,	1 95
265.	Upper Cap for 3 inch Cylinder, 1¼ inch Pipe, Outside Attachment, Brass Lined or Polished	1 40	
266.	Head, Wheeler, for Heavy Tubular or Stock Lift Pump	3 50	
267.	Bushing for Stuffing Box Nut, Castings Nos. 255 and 259	1 05	
268.	Head, Wheeler, for No. 20 Style, 6, 8 and 10 inch Stroke	4 20	
269.	Flange for 1¼ inch Pipe, Imperial or Regulator Pump, used on Casting No. 255	1 05	
270.	Flange for 1½ inch Pipe, Imperial or Regulator Pump, used on Casting No. 255	1 05	
271.	Flange for 2 inch Pipe, Imperial or Regulator Pump, used on Casting No. 255	1 05	
272.	Shell over Submerged Cylinder, used on Nos. 20 and 21 Pumps, 6, 8, and 10 inch Stroke	2 45,	7 00
273.	Head, Wheeler, for Imperial Pump	4 20	
274.	Handle, 34 inches long, for 6, 8 and 10 inch Stroke, Wheeler Head	1 70	
275.	Fulcrum for 6, 8 and 10 inch Stroke, Wheeler Head	55	
276.	Shell over Submerged Cylinder, used on Nos. 22 or 23 Pumps, 6 to 10 inch Stroke	2 80,	7 30
277.	Lid for Base on Tubular Well Pump	40	
278.	Standard for Tubular Well Lift Pump	6 30	
279.	Upper Cap for 2¾ inch Cylinder, 1¼ inch Pipe, Brass Lined or Polished, Outside Attachment, Screw Cap	1 05	
280.	Shell over Submerged Cylinder, used on Nos. 24 or 25 Pumps, 6 to 10 inch Stroke	3 15,	8 45
281.	Upper Cap for 2½ inch Cylinder, 1¼ inch Pipe, Brass Lined or Polished, Outside Attachment, Screw Cap	1 05	
282.	Lower Cap for 2¾ inch Cylinder, Brass Lined or Polished, Outside Attachment, Iron Seat	1 40,	1 70
283.	Lower Cap for 2¼ inch Cylinder, Polished	1 40	
284.	Lower Cap for 2½ inch Cylinder, Brass Lined or Polished, Outside Attachment, Iron Seat, Screw on	1 40,	1 70
285.	Upper Cap for 2 inch Polished Cylinder (abandoned)	1 05	
286.	Lower Cap for 2¼ inch Cylinder, Polished (abandoned)	1 40	
287.	Weight Shell for Regulator	1 70	

Rep. No.		Price.	Complete.
288.	Lower Cap for 2 inch Polished Cylinder (abandoned)	$1 40	
289.	Cap for Bottom of Old Style Hollow Weight	55	
290.	Wheel for Weight, Regulator Pump	1 80	
291.	Top Cap for Hydraulic Cylinder, 2½ inch	1 40	
292.	Projection for Stuffing Box on Single Acting Pumps, Tapped 1¼ inch	2 80	
293.	Yoke for Pipe Vise Screw	65	
294.	Inlet for Hydraulic Cylinder, Regulator Pump, Tapped 2 inches, Threaded 1½ inches, Elbow Tapped 1 inch (abandoned)	3 50	
295.	Fulcrum for No. 278 Stand	1 80	
296.	Link for Piston Rod, Siphon Spout Force and Lift Pumps	55	
297.	Reservoir Head, Siphon Spout, 1 inch Discharge, Lift Pump	2 80	
298.	Lower Cap for 3¼ inch Brass Cylinder, Inside Attachment, Glass Seat	1 70,	$3 35
299.	Upper Cap for 3¼ inch Brass Cylinder, Inside Attachment	1 40	
300.	Lower Cap for 2¾ inch Brass Cylinder, Inside Attachment, Glass Seat	1 40,	2 45
301.	Upper Cap for 2¾ inch Brass Cylinder, Inside Attachment	1 05	
302.	Cap Plug for Air Chamber, on Regulator (abandoned)	1 05	
303.	Lower Cap for 4 inch Brass Cylinder, Inside Attachment, Glass Seat	3 15,	5 60
304.	Base Plate for Branch Pipe, Left Hand	1 90	
305.	Stand for Ashland Siphon Spout Lift Pump	5 60	
306.	Eye for Piston Rod, Siphon Spout, Lift or Force Pumps (abandoned)	55	
307.	Bucket Casting, Iron, for 6 inch Cylinder, Upper	85	
308.	Bucket Casting, Iron, for 6 inch Cylinder, Lower	1 05	
309.	Bucket Casting, Iron, for 5 inch Cylinder, Upper	65	
310.	Bucket Casting, Iron, for 5 inch Cylinder, Lower	1 00	
311.	Upper Cap for 5 inch Brass Cylinder, Inside Attachment	3 50	
313.	Upper Cap for 6 inch Brass Cylinder, Inside Attachment	4 20	
315.	Cylinder, 2½ inch, Brass Lined, with Brass Upper Cylinder, for Barrel Spray Pump	7 00	
316.	Handle for Barrel Spray or House Force Pump, 24 inches long	1 40	
317.	Weight for 5 inch Check Valve	35	
318.	Weight for 6 inch Check Valve	40	
319.	Base Plate for Barrel Spray Pump 2½ inch Cylinder, Iron Seat	2 10	
320.	Link for Piston Rod, Barrel Spray Pump	55	
321.	Lower Cap for 3 inch Cylinder, Outside Attachment, Brass Lined or Polished, Glass Seat	1 70,	2 55
322.	Upper Cap for 3¼ inch Cylinder, 1¼ inch Pipe, Brass Lined or Polished, Outside Attachment	1 40	
323.	Lower Cap for 3¼ inch Cylinder, Brass Lined or Polished, Outside Attachment, Iron Seat	1 70,	2 25
324.	Cylinder Shell, Bolt Cap, 3 inch Uneven, Brass Lined Lower, Brass Upper	4 90,	9 00
325.	Connection for ½ x 1 inch Windmill Bar to 1¼ inch Wood Rod	1 05	
326.	Flange for 2½ inch Pipe, Imperial or Regulator Pump, used on Castings No. 255	1 05	
327.	Forked Washer for Upper Bucket, Barrel Spray Pump	65	
328.	Cone Expander for Barrel Spray Pump	15	
329.	Strainer for Barrel Spray Pump	1 05	
330.	Head for Regulator Pump with Stud for Segment	5 60	
331.	Weight to be used on Lever for Regulator	3 50	
332.	Segment for Steel Lever for Regulator	2 15	
333.	Lower Cap for 3½ inch Brass Lined Cylinder, Outside Attachment, Iron Seat	1 70,	2 10
334.	Base Plate for Tripod Stand, Spray Pump	1 40	
335.	Stand for Imperial Pump, Old Style, One Piece	7 00	
338.	Upper Cap for 3½ inch Cylinder, 1½ inch Pipe, Brass Lined or Polished, Outside Attachment, Screw Cap	1 40	
339.	Reservoir Head, Siphon Spout, 1¼ inch Discharge, Lift Pump	2 80	
345.	Cap, Lower, 2½ inch Cylinder, Brass Lined or Polished, Outside Attachment, Glass Seat	1 40,	2 60
346.	Cap, Lower, 3½ inch Cylinder, Brass Lined or Polished, Outside Attachment, Glass Seat	1 70,	3 35
349.	Cap for Coil Spring, Regulator	20	
350.	Cap for Top of Air Chamber, Regulator Pump (abandoned)	65	
351.	Cylinder Shell, Bolt Cap, 3½ inch Uneven, Brass Lined Lower and Brass Upper	4 85,	11 00
352.	Cylinder Shell, 3 x 20 inches, Brass Lined	4 85,	13 25
353.	Reducer, 1½ x 1¼ inches, Malleable	55	
354.	Stand, Left Side, for Imperial and Regulator Pumps	3 50	
355.	Stand, Right Side, for Imperial and Regulator Pumps	3 50	
356.	Reducer, ¾ x ½ inch, Malleable	20	
357.	Cap for Top of Air Chamber, 2 inch, with Ears for Bolt, Regulator	65	
358.	Cylinder Shell, Brass Lined, 3½ x 20 inches	5 60,	14 50
359.	Reservoir Head, Siphon Spout, 1¼ inch Discharge, Force Pump	2 80	
360.	Cylinder Shell, Brass Lined, 4 x 20 inches	6 75	
361.	Spout, Gooseneck, for House Force Pump, Old Style	1 40	
362.	Cylinder, Brass Lined Body with Brass Upper Cylinder, for House Force Pump	6 75	
363.	Elbow, Brass, for Bucket Spray Pump	2 15	
364.	Clamp for Brass Bucket Spray Pump	40	
365.	Handle for Brass Bucket Spray Pump	40	
366.	Cap for Air Chamber, Brass Bucket Spray Pump	35	
367.	Cap and Piston Rod Guide for Top of Cylinder, Bucket Spray Pump	30	
368.	Lower Cap for 3 inch Cylinder, Inside Attachment, Glass Seat (abandoned)	1 70,	3 80
369.	Base for House Force Pump, 2½ inch Cylinder, Old Style	2 45	
370.	Base for House Force Pump, 3 inch Cylinder, Old Style	2 45	
371	Reservoir Head, Siphon Spout, 1 inch Discharge, Force Pump	2 80	
372.	Coupling Nut for Suction Pipe, House Force Pump	1 05	
373.	Yoke for Piston Rod, Ashland Force Pump	65	
374.	Lower Cap for 4 inch Cylinder, Brass Lined, Glass Seat	3 10,	5 60
375.	Upper Cap for 4 inch Cylinder, Brass Lined or Polished, Outside Attachment	2 15	
376.	Weight for Check Valve, 4 inch	30	
377.	Elbow, Close, Size 1½ x 1 inch	1 05	
378.	Weight for 3 inch Check Valve, House Force Pump	30	
379.	Cap or Plate for Top of Geyser, 1893 only	1 70	
380.	Cylinder for Geyser Tank Pump	11 25	
381.	Cylinder Shell Screw Cap, 3½ inch Uneven, Brass Lined Lower and Brass Upper	4 85	
382.	Cap, Lower, 5 inch Brass Lined Cylinder, Outside Attachment, Iron Seat	6 30,	7 00
382.	Cap, Lower, for Geyser Tank Pump, Iron Seat	6 30	

Rep. No.		Price.	Complete.
383.	Piston Rod Guide or Yoke, Geyser, 1893 only	$1 05	
384.	Link for Geyser, 1893 only	65	
385.	Oscillating Fulcrum on Spout, Geyser, 1893 only	1 05	
386.	Oscillating Fulcrum, Rear, Geyser, 1893 only	1 05	
389.	Oscillator for Dishwasher Pump	65	
390.	Handle, 14 inches long, for Dishwasher Pump	1 05	
391.	Piston Rod Connection for Dishwasher Pump	55	
392.	Plunger for Dishwasher Pump	1 05	
393.	Coupling for ½ inch Pipe	30	
394.	Cap for Bottom of Hydraulic Cylinder, 2½ inch	1 40,	$2 80
395.	Follower for Hydraulic Plunger, 2½ inch	35	
396.	Washer for Spring on Hydraulic Safety Valve	20	
397.	Screw-Driver Nut, Bucket Spray Pump	15	
398.	Yoke Link for Geyser, 1893 only	85	
399.	Nipple for 2 inch Suction Hose, Cyclone and Geyser Tank Pumps	1 05	
400.	Cross Head for Cyclone and Geyser Tank Pumps	2 15	
401.	Upper Cap, Y Shape, for 3 inch Cylinder, 1½ inch Pipe	1 75,	3 80
402.	Nipple for 2¼ inch Suction Hose, Geyser	1 05	
403.	Foot Valve, 1¼ inch, Upper Half	65	
404.	Foot Valve, 1¼ inch, Lower Half	65	
405.	Foot Valve, 1¼ inch, Valve Seat	35	
406.	Elbow for Cyclone Well Pump, Cast	65	
407.	Cage for Plunger, Hydraulic Cylinder, Regulator Pump	65	
408.	Fulcrum, Old Style, for Adjustable Base Lift Pump	2 80	
411.	Casting to enlarge 1½ inch Pipe, Imperial Pump Stand	40	
412.	Base Plate for Adjustable Lift Pump	1 90	
413.	Main Frame for Fig. 514 Back Geared Countershaft	7 00	
414.	Gear Wheel for Fig. 514 Countershaft, Inside Cog	7 00	
414½.	**Bushing for Wrist Pin on Nos. 347, 348 and 350 (abandoned)**	1 40	
415.	Base for Hydraulic Spray Pump, 8 inch Pipe (abandoned)	5 60	
416.	Top Cap for Air Chamber, Hydraulic Spray Pump	2 80	
417.	Lower Cap for Brass Cylinder, Outside Attachment, Hydraulic Spray Pump	1 40	
418.	Piston Rod Connection or Handle Bearer, Hydraulic Spray Pump (abandoned)	65	
419.	Upper Cap for Brass Cylinder, Perforated, Hydraulic Spray Pump	1 10	
420.	Thumb Screw for Bucket Spray Pump	15	
421.	Pulley, 12 inch Diameter, 3 inch Face (abandoned)	4 20	
422.	Pinion for Countershaft Fig. 514	2 15	
423.	Coupling, ½ inch Rod	15	
424.	Foot Valve, 1½ inch, Upper Half	1 40	
425.	Foot Valve, Seat to go with Nos. 424 and 426	35	
426.	Foot Valve, 1½ inches, Lower Half	1 40	
427.	Base with Brass Valve Seat, Barrel Spray Pump, 2½ inch Cylinder	2 80	
430.	Forked Piston Connection for attaching Flat Rod to Bar, Countershaft Fig. 514	1 40	
431.	Pitman Connection, Upper, for Wrist Pin on Countershaft Fig. 514	1 05	
433.	Cylinder for Low Down Tank Pump, Polished } In ordering state whether Brass Lined or Polished	8 40	
433.	Cylinder for Low Down Tank Pump, Brass Lined } In ordering state whether Brass Lined or Polished	12 30	
434.	Cap over Discharge Valve, Low Down Tank Pump	1 10	
435.	Hose Nipple, Suction, 2¼ inch, Enlarged End for Low Down Tank Pump	65	
437.	Cap and Piston Guide Yoke, Geyser Tank Pump	4 20	
438.	Union Nut for Suction and Discharge, Low Down Tank Pump	65	
441.	Valve Seat, Brass, Low Down Tank Pump	4 40	
442.	Oscillator at End of Handle, Geyser Tank Pump	1 40	
443.	Oscillator over Spout, Geyser Tank Pump	1 40	
444.	Head for Stuffing Box, for Cylinder, Low Down Tank Pump	2 80	
445.	Head for Cylinder, Plain, for Low Down Tank Pump	2 80	
446.	Oscillating Link, Low Down Tank Pump	1 05	
447.	Check Valve, Upper, Low Down Tank Pump	65	
448.	Handle Socket for Low Down Tank Pump	1 70	
449.	Upper Casting, Lower Bucket, ½ inch Rod, Geyser Tank Pump	65	
450.	Lower Casting, Lower Bucket, ½ inch Rod, Geyser Tank Pump	65	
451.	Upper Casting, Upper Bucket, ½ inch Pipe Hole, Geyser Tank Pump	65	
452.	Lower Casting, Upper Bucket, ½ inch Pipe Hole, Geyser Tank Pump	65	
453.	Spout, Gooseneck, for Low Down Tank Pump	1 70	
454.	Head, Wheeler, for Adjustable Stroke used on all Branch Pipe Pumps	3 65	
455.	Head, Wheeler, for Ashland Lift or Force Pumps	3 35	
456.	Standard for Ashland Siphon Spout, Wheeler Head	4 95	
457.	Bucket Plate, ¼ x 5 inches, Low Down Tank Pump (abandoned)	35	
458.	Bucket Plate, ¼ x 4½ inches, Low Down Tank Pump (abandoned)	35	
459.	Eye for 11/16 inch Piston Rod, Low Down Tank Pump	65	
460.	Guide for Piston Rod, Low Down and Horse Power Combined	2 80	
461.	Head, Wheeler, for Adjustable Base Lift Pump	3 35	
462.	Plate for Air Chamber, Myers Knapsack Pump	1 40	
463.	Plate Riveted to Top of Tank, Myers Knapsack Pump	1 40	
464.	Oscillator, Myers Knapsack Pump	65	
465.	Head, Wheeler, for Nos. 256 or 257 Fire Pumps, Two Handles	6 30	
466.	Handle, Cast, for Pumps on Knapsack Sprayer	45	
467.	Handle, 33 inches long, for Ashland and Adjustable Base Lift Pumps, Wheeler Head	1 70	
468.	Hose Connection for Discharge, Low Down Tank Pump	65	
469.	Union Nut for Hose Attachment, Low Down Tank Pump	65	
471.	Air Chamber, Barrel Spray Pump	2 80	
472.	Drop Check Valve, Iron, for 3 inch Cylinder	65	
473.	Reservoir Head, Ashland Force Stand, Tubular, Old Style (abandoned)	3 35	
474.	Drop Check Valve, Iron, for 2½ inch Cylinder	65	
475.	Standard for Ashland Force Pump, Tubular (abandoned)	5 60	
476.	Spout, Gooseneck, 1¼ inch, for Imperial Cyclone Pump	1 10	
477.	Check Valve, Low Down Tank Pump	55	

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Rep. No.		Price.	Complete.
478.	Head, Wheeler, Ashland Force Stand (abandoned, cannot furnish)	$4 20	
479.	Fulcrum, Movable, for Ashland Force Stand, Old Style	65	
480.	Stuffing Box Cap for Ashland Force, Tubular	1 40	
481.	Reservoir Head, Cock Spout, Ashland Force Stand, Tubular, Old Style (abandoned)	6 30	
482.	Head for Imperial Cyclone Well Pump	5 60	
483.	Oscillator for Imperial Cyclone Handle, Side	65	
484.	Projection for 3 inch Cylinder, Imperial Cyclone Pump	3 50	
486.	Projection for 3½ inch Cylinder, Imperial Cyclone Pump	3 80	
487.	Trolley, one half, Store Ladder (abandoned)	4 20	
488.	Projection for 4 inch Cylinder, Imperial Cyclone Pump	4 20	
489.	Floor Wheel, one half, without Hub, Store Ladder	55	
490.	Lever for Cock Spout on Reservoir Head, Casting 570	65	
491.	Pitman for Power Pump (abandoned)	2 45	
492.	Connection for Piston, Low Down Back Geared Power Pump	1 05	
493.	Lower Cap, Brass Seat, 3 inch Outside Attachment, Brass Lined or Polished Cylinder	1 40,	$2 25
494.	Lower Cap, 2¾ inch, for 1¼ inch Inside Attachment, all Brass	3 15	
495.	Connection for 2 inch Pipe, Suction or Discharge, Low Down	1 05	
496.	Upper Cap, 3 inch, for 2 inch Pipe, Inside Attachment, all Brass	2 45	
497.	Oscillator, Imperial Cyclone, at end of Handle	1 05	
498.	Lower Cap, 3 inch, for 2 inch Pipe, Inside Attachment, all Brass	3 50	
499.	Upper Cap for Imperial Bucket Spray Pump Air Chamber, Hose Guide and Plunger Barrel	35	
500.	Cap for Air Chamber with Outlet for Discharge Hose. Little Giant Spray Pump	1 05	
501.	Lower Cap and Elbow for Little Giant Spray Pump	2 15	
502.	Cross Head for Double Piston Rod, Imperial Cyclone	2 15	
503.	Stuffing Box, Imperial Cyclone, ⅜ inch Brass Piston	1 40	
504.	Follower for Tilt Valve, 3 inch Cylinder	55	
505.	Tilt Valve, 3 inch Cylinder	35	
506.	Follower for Drop Valve, 3 inch Cylinder	55	
507.	Upper Cap, 4 inch, Y Shape, for 2 inch Pipe	2 45	
508.	Handle, 38 inches long, for Fire Pump, Wide Fork	2 15	
509.	Cap, Lower, 2½ inch Brass Lined Cylinder, Outside Attachment, Brass Seat	1 40,	2 45
510.	Shell over Submerged Cylinder used on Nos. 256 and 257 Pumps	3 50	
511.	Thumb Screw for Hose Connection	20	
512.	Hose Connection with Screw	50	
513.	Base for Fire Pump, 2 inch Pipe	2 80	
514.	Connection for Piston Rod, ½ inch Pipe to ½ x 1 inch Windmill Bar, Slotted	35	
515.	Lower Cap for 3¼ inch Cylinder, Outside Attachment, Brass Lined or Polished, Glass Seat	1 80,	2 55
516.	Shell over Submerged Cylinder used on Nos. 76 and 77	3 15,	8 75
517.	Plug, Brass, for Cock Spout, Reservoir Head, Casting 570	2 15	
518.	Ball Valve Seat, Brass, Imperial Bucket Spray Pump with Side Outlet	2 15	
519.	Cap, Lower, 3½ inch Brass Lined Cylinder, Outside Attachment, Brass Seat	1 70,	3 10
520.	Cap, Upper, 2¾ inch, 1½ inch Pipe, Inside Attachment, all Brass	2 15	
521.	Cap, Lower, 2¾ inch, for 1½ inch Pipe, Inside Attachment, all Brass	3 15	
522.	Washer, Brass, for Cock on Cock Spout	30	
523.	Guide for Piston Rod, ½ inch, Imperial Cyclone Pump	30	
524.	Brass Valve Seat for Cap Nos. 108 and 105	30	
525.	Strainer, one half, for 1¼ inch Pipe	30	
526.	Air Chamber for Low Down Pump (abandoned)	2 80	
527.	Trolley Frame, one half, for Store Ladder (abandoned)	2 80	6 20
528.	Flange Side of Trolley Wheel for Store Ladder	30	
529.	Hub Side of Trolley Wheel for Store Ladder	55	
530.	Pivot for Gate Hanger	30	
531.	Traveler Wheel for Gate Hanger	40	
532.	Feed Pipe with Union End for Hydraulic Spray Pump	1 10	
533.	Lower Cap with Two Valve Seats, for 2½ inch Brass Cylinder, Hydraulic Spray Pump	3 35	
534.	Projection, Casting only, for 3 inch Cylinder, Branch Pipe Pump	2 45	
535.	Base Plate for Knapsack Spray Pump	1 40	
536.	Lower Check Valve, Brass, for Hydraulic Spray Pump	1 10	
537.	Spout, Siphon, for House Force Pump	1 40	
538.	Cap, Lower, 4 inch Brass Lined Cylinder, Outside Attachment, Brass Seat	3 15,	5 60
543.	Check Valve, Lower, 8 inch Myers and Perfect Irrigation Cylinders	5 60	
544.	Wing Guide for Lower Check Valve, 8 inch Myers and Perfect Irrigation Cylinders	1 40	
546.	Lower Cap, 2¾ inch Cylinder, Brass Lined, Outside Attachment, Glass Seat	1 40,	2 45
547.	Hose Nipple, Suction, 2 inch, for Low Down Tank Pump	65	
551.	Hinge to Fire Escape, one half	65	
552.	Strainer Body for Low Down Tank Spray Pump	1 40	
553.	Strainer Plate for Low Down Tank Spray Pump	65	
554.	Upper Half Horizontal Check Valve, 1¼ inch	85	
555.	Lower Half Horizontal Check Valve with Seat, 1¼ inch	1 70	
556.	End Stop on Track for Store Ladder Trolley	20	
557.	Floor Wheel, one half, with Hub, Open Pattern	55	
558.	Floor Wheel, one half, without Hub, Open Pattern	35	
560.	Cylinder, 3 inch, Brass Lined, for House Pump } In ordering state whether Brass Lined or Polished	5 60	
560.	Cylinder, 3 inch, Polished, for House Pump } In ordering state whether Brass Lined or Polished	4 20	
561.	Base, Oblong, House Pump, Glass Seat	2 15,	3 50
562.	Spout, Plain, for House Pump, Threaded 1¼ inch, 3 inch Cylinder	85	
563.	Plug, 1¼ inch, for Back Outlet, House Pump	30	
564.	Air Chamber, Low Down or Power Pump, Top and Side Outlet	7 00	
566.	Cap, Lower, 2¾ inch Brass Cylinder, Inside Attachment, Brass Seat	1 40.	2 45
568.	Reservoir Head, Improved, Ashland Force or Lift Stand, Tubular	2 50	
570.	Reservoir Head, Cock Spout, Improved, with Side Outlet, Ashland Force Stand, Tubular		6 20
571.	Standard, Ashland Force Pump	5 60	
573.	Stuffing Box Cap for Ashland Force Tubular Well Pump	1 40	
576.	Link to Windmill Bar, Ashland Force Tubular Well Pump	20	
577.	Base to Power Pump, No. 352 (abandoned)	28 00	
578.	Eye for Piston Rod, House Pump	55	
579.	Clamp for Foot Rest, Bucket Spray Pump	30	

Rep. No.		Price.	Complete.
580.	Foot Rest, all Bucket Spray Pumps except Nos. 323, 324, 329	$0 65	
581.	Hose Clamp for Discharge Pipe, Right Side, Lever Bucket Spray Pump	15	
582.	Hose Clamp for Discharge Pipe, Left Side, Lever Bucket Spray Pump	15	
583.	Handle for Lever Bucket Spray Pump, Malleable	65	
584.	Fulcrum, Oscillating, Lever Bucket Spray Pump	35	
585.	Eye for Piston Rod, Lever Bucket Spray Pump	30	
586.	Cap for Air Chamber, Lever Bucket Spray Pump	65	
587.	Cap for Top of Cylinder, House Lift Pump, 3 or 3½ inch Cylinder	55	
588.	Cap, Lower, 4 inch Brass Lined Cylinder, Outside Attachment, Iron Seat	3 15	
589.	Three-Way for 1 inch Pipe, Combination Pump	2 80	
590.	Double Elbow, 3½ inch Cylinder, Combination Pump	2 80	
591.	Cap to Air Chamber, Low Down Pump, Top or Side Outlet	1 05	
592.	Link, House Force Pump, Improved	55	
593.	Double Elbow, 3 inch Cylinder, Combination Pump	2 45	
594.	Drop Check Valve, Tilting, House Pump, 3 inch Cylinder	65	
595.	Double Elbow, 2½ inch Cylinder, Combination Pump	2 15	
596.	Cap for Air Chamber, Combination Pump	35	
597.	Cap for Top of Cylinder, House Force Pump, 3 or 3½ inch Cylinder	1 10	
598.	Projection, Casting only, for 4 inch Cylinder, Branch Pipe Pump	2 45	
599.	Cylinder, 3½ inch, Brass Lined, for House Pump } In ordering state whether	6 30	
599.	Cylinder, 3½ inch, Polished for House Pump } Brass Lined or Polished	4 95	
600.	Stand, Right Side, Combination Pump	3 50	
601.	Stand, Left Side, Combination Pump	3 50	
602.	Coupling, Long for 1 inch Pipe, Discharge, Combination Pump	55	
603.	Cap for Air Chamber, to bolt on, Hydraulic Spray Pump	4 20	
604.	Base to bolt on Hydraulic Spray Pump	5 60	
605.	Spout with Cock for House Pump, Threaded 1¼ inch, 3 inch Cylinder	4 95	
606.	Spout, Plain, for House Pump, Threaded 1½ inch, for 3½ inch Cylinder	1 00	
607.	Base for House Pump, 3 inch Cylinder, Iron Seat	1 80,	$2 45
608.	Connection for Piston Rod, ½ inch Rod to ½ x 1 inch Windmill Bar, Slotted	35	
609.	Connection for Piston Rod, ⅜ inch Pipe to ½ x 1 inch Windmill Bar, Slotted	35	
610.	Main Body with 2½ inch Brass Lined Lower Cylinder and Brass Upper Cylinder, Perfect Barrel Spray Pump	7 00	
611.	Base for House Pump, 3½ inch Glass Seat	2 45,	3 95
612.	Cap, Lower, 2½ inch Cylinder, Brass Seat, Perfect Barrel Spray Pump	1 40,	2 15
613.	Base for House Pump, 3½ inch Cylinder, Iron Seat	2 15,	2 80
614.	Bushing for 1¼ inch Plunger Tube, for Casting No. 255	1 05	
615.	Base for Perfect Spray Barrel Pump	1 40	
616.	Cap Reducer for Plunger Cylinder, Perfect Barrel Spray Pump	1 40	
617.	Plug for Back Outlet, 1½ inch, for 3½ inch House Pump	30	
618.	Follower, Iron, for Drop Valve, 3½ inch Plunger, House and Pitcher Pumps, Brass Cylinder	65	
619.	Anchor for Mechanical Agitator, Barrel Spray Pump	1 00	
620.	Agitator Casting, Barrel Spray Pump	1 00	
621.	Reservoir Head, Siphon Spout, Tapped for Aerator, Lift Pump	3 50	
622.	Head, Wheeler, Tubular Well Stand, Adjustable Stroke, Force	3 50	
623.	Stuffing Box Cap with Extension for Spout Head, Nos. 568 and 570	1 40	
624.	Stand, Tubular, Plain or Windmill Head, Lift or Force	4 95	
625.	Thumb Screw, ½ inch, for Air Vent in Spout Head	35	
626.	Base for Perfect Bucket Spray Pump	1 40	
627.	Upper Cap for 2 inch Air Chamber, Perfect Bucket Spray Pump	1 05	
628.	Main Body with 2½ inch Brass Lined Lower Cylinder and Brass Upper Cylinder, Special Large Air Chamber, Perfect Barrel Spray Pump	7 00	
629.	Cap, Upper, 5 inch Cylinder, Brass Lined or Polished, Outside Attachment	3 35	
630.	Aerator Body, Tapped for ⅜ inch Pipe at both ends	1 40	
631.	Valve Seat, Brass, for ¾ inch Ball and ⅜ inch Pipe, Perfect Bucket Spray Pump	35	
632.	Valve Seat, Brass, for Perfect Bucket Spray Pump	40	
633.	Head, Wheeler, 6 inch Stroke, Lift and Force, for Ashland Stand No. 635	2 80	
635.	Stand, Ashland Force or Lift, Plain or Windmill Head, 1½ inch Pipe	5 60	
636.	Spanner for Low Down Union Nut	1 40	
637.	Main Frame for Horse Power (abandoned)	28 00	
638.	Brass Ring for Valve Seat, 2 inch Suction	30	
639.	Brass Ring for Valve Seat, 1½ inch Suction	20	
640.	Head, Wheeler, Adjustable Stroke, Lift, No. 112 Stand	3 50	
641.	Nozzle, Brass, Inside of Aerator	40	
642.	Guide for Agitator Rod, Barrel Spray Pump	65	
643.	Master Wheel, Bevel Cog, for Horse Power (abandoned)	20 25	
644.	Bevel Pinion for Horse Power	4 20	
645.	Handle, 32 inches long	2 10	
646.	Hose Sleeve for 1 inch Hose Special, to attach to Casting No. 512	15	
647.	Cap for Air Chamber, Myers Bucket Spray Pump	55	
648.	Bushing for 1 inch Plunger Tube, Castings Nos. 255 and 259	1 05	
649.	Cap for Air Chamber, Barrel Attachment, Lever Bucket Spray Pump	65	
650.	Cap, Lower, Brass Seat, 2¾ inch, Outside Attachment, Brass Lined or Polished	1 40,	2 45
651.	Handle with Hole for Agitator Rod, Barrel Spray Pump	1 40	
653.	Bushing, Combination, Tapped for 1¼ inch and 1½ inch Pipe, Threaded for 2 inch Pipe	40	
654.	Fulcrum Oscillator, 8 inches long, for Perfect Lever Bucket Spray Pump	35	
655.	Projection for Imperial and Regulator Pumps, for Vertical Three-Way, 1½ inch Discharge (abn'd)	4 95	
656.	Bushing for Stuffing Box Nut, casting No. 655 (abandoned)	1 40	
657.	Bushing Seat for Vertical Three-Way, 1½ inch Discharge, Bolted	1 05	
658.	Flange, Tapped 3 inch, used on Casting No. 655	1 40	
659.	Cap for 2 inch Air Chamber, Perfect Lever Bucket Spray Pump	85	
660.	Connection for 2 inch Wood Rod, Threaded for 1½ inch Pipe, Myers and Perfect Irrigation Cylinders	1 40	
661.	Flange Cap, Horse Power (abandoned)	2 15	
662.	Base, with Two Valve Seats, Myers Bucket Spray Pump, Improved	2 15	
664.	Cap, Upper, 3 inch, Brass Lined, Inside Attachment (abandoned)	1 40	
665.	Sleeve for Lever, 5 inch Beam, Horse Power (abandoned)	5 60	

Rep. No.		Price.	Complete.
666.	Cap over Discharge Valve, Faultless Low Down Pump	$1 10	
667.	Cylinder Head, Plain, Faultless Low Down Pump or Double Boiler Feeder	2 80	
668.	Connection for Wood Rod, Knuckle Joint, Siphon Pump	1 05	
669.	Shield for Horse Power Gear	1 05	
670.	Pinion for Gear Wheel No. 673	2 15	
671.	Cap, with Two Valves, 1½ inch Union, Hydraulic Spray Pump	4 20,	$5 60
672.	Feed Pipe, 1½ inch Union, Hydraulic Spray Pump	1 40	
673.	Gear Wheel for Horse Power, Inside Cog	7 00	
674.	Head, Wheeler, Adjustable Stroke, Adjustable Base Pump	3 50	
675.	Check Valve, Guide and Weight, Hydraulic Spray Pump	35	
676.	Check Valve, with Flange for Discharge, Brass, Hydraulic Spray Pump	35	
677.	Cap, Lower, Glass Seat, 3 inch Brass Lined, Inside Attachment (abandoned)	1 75,	2 80
678.	Fulcrum Head for Ashland Lift and Force Pumps	2 80	
679.	Base for Improved Barrel Spray, 2 inch Pipe (abandoned)	2 15	
680.	Cap for Air Chamber, Improved Barrel Spray (abandoned)	2 15	
681.	Cap for Top of Cylinder, Improved Barrel Spray	65	
682.	Drop Check Valve, Iron, for 3½ inch Cylinder	65	
683.	Fulcrum, Oscillator, Improved Barrel Spray	55	
684.	Arm with Lugs, for Anti-Friction Knuckle	2 80	
685.	Flange, one side, for Anti-Friction Knuckle	1 40	
686.	Valve Seat and Strainer, for Improved Spray	1 75	
687.	Valve Seat for Air Chamber, Improved Barrel Spray	55	
688.	Coupling to connect Piston to Handle No. 651, Improved Barrel Spray	55	
689.	Fulcrum Head for Tubular Well Stand, Lift, Plain Head	2 80	
690.	Flange, Tapped 1¼ inch, used on Casting No. 655	1 40	
691.	Reservoir Head, 2 inch Spout Discharge, Ashland Stock Pump, Lift, 4 inch Cylinder	3 50	
692.	Valve Seat and Flange for 8 inch Perfect Irrigation Cylinder, 6 inch Pipe	11 25	
694.	Brass Stuffing Box for ⅝ inch Piston Rod	65	
695.	Cylinder Shell, Brass Lined, 8 inch Perfect Irrigation Cylinder	25 00	
696.	Flange, Tapped 2 inch, used on Casting Nos. 655 and 2908	1 40	
697.	Bucket Casting, Lower, for 8 inch Perfect Irrigation Cylinder	3 50	
698.	Bucket Casting, Upper, for 8 inch Perfect Irrigation Cylinder	3 50	
699.	Valve Weight for Bucket, 8 inch Perfect Irrigation Cylinder	1 00	
700.	Spout, with Cock, for House Pump, Threaded 1½ inch, 3½ inch Cylinder	4 90	
701.	Cap, Lower, Glass Seat, 2½ inch Brass Lined, Inside Attachment (abandoned)	1 40,	2 45
702.	Cap, Upper, 2½ inch Brass Lined, Inside Attachment (abandoned)	1 05	
703.	Pipe Vise, Upper Half	2 15	
704.	Pipe Vise, Lower Half	2 15	
705.	Fulcrum Head, Force, for Tubular Stand, Plain Head	2 80	
706.	Horizontal Check Valve, Upper Half, 1 inch Pipe	1 05	
707.	Horizontal Check Valve, Lower Half, 1 inch Pipe	1 40	
708.	Reservoir Head for Standard No. 709, Ashland Stock Pump, Lift, 5 or 6 inch Cylinder	4 20	
709.	Standard, 3 inch Tubular, Lift, Plain or Windmill Head	7 00	
710.	Bucket Casting, Lower, 6 inch Perfect Irrigation Cylinder	2 80	
711.	Bucket Casting, Upper, 6 inch Perfect Irrigation Cylinder	2 80	
712.	Cylinder Shell, Brass Lined, 6 inch Perfect Irrigation Cylinder	16 75	
713.	Check Valve Weight, 6 inch Perfect Irrigation Cylinder	85	
714.	Check Valve, Wing Guide, 6 inch Perfect Irrigation Cylinder	95	
715.	Valve Seat and Flange, 6 inch Perfect Irrigation Cylinder	8 45	
716.	Frame, one half, for Crank Shaft, Direct Hitch Power Working Head	9 75	
717.	Frame, one half, Gland Side, for Crank Shaft, Direct Hitch Power Working Head	11 25	
718.	Head, Wheeler, for 3 inch Tubular Stand	3 50	
719.	Stand for Siphon Pump, Fig. 695	8 45	
720.	Gland for Crank Shaft for Direct Hitch Power Working Head	4 20	
721.	Socket for Auxiliary Handle, for Low Down	2 15	
722.	Bracket for Socket No. 721	1 05	
723.	Cap, Upper, Main Body Siphon Pump attached with Two Bolts (abandoned)	4 20	
724.	Cap, Lower, 3 inch Brass Lined, Glass Seat, Outside Attachment, Tapped for 2 inch Pipe	1 75,	2 80
725.	Cap, Upper, for 3 inch Brass Lined Cylinder, Outside Attachment, Tapped for 2 inch Pipe	1 40	
726.	Air Chamber for Siphon Pump used with Casting 719	2 80	
727.	Cap, Lower, all Brass, 2½ inch Glass Seat, Outside Attachment, for Brass Cylinder	2 15	
729.	Plug for Base of Siphon Pump, Fig. 695	1 05	
730.	Collar for suspending 3 inch Cylinder in Siphon Pump into Standard No. 719	2 15	
731.	Fulcrum Head, Plain, for 3 inch Tubular Well Pump	3 50	
732.	Plunger Valve Weight, 6 inch Irrigation Cylinder	65	
733.	Cap, Lower, 3 inch Cylinder, all Brass, Outside Attachment, Glass Seat, Siphon Pump	3 50	
734.	Cylinder for Low Down for Auxiliary Handle	14 00	
735.	Pitman for Power Pump	2 80	
736.	Horizontal Check Valve, one half, with Seat, for 1½ inch Pipe	2 45	
737.	Horizontal Check Valve, Open Half, for 1½ inch Pipe	2 45	
738.	Base Plate for Direct Hitch Power Working Head	14 00	
739.	Connection, Straight, for Wood Rod, Siphon Pump	1 05	
740.	Cylinder for Low Down Back Geared Power Pump (abandoned)	14 00	
741.	Cylinder Base for Hydraulic Spray, Improved, with Elbow, for Inlet and Retaining Valves and with 1½ inch Union Thread at Lower End	2 80	
742.	Cap over Retaining Valves, Tapped for 1 inch Pipe Inlet to Reservoir, Hydraulic Spray Pump, Improved, with Ears to bolt on	1 05	
743.	Hydraulic Spray Elbow, Inlet with Valve Seat, Tapped for 1 inch Hose Nipple	1 75	
745.	Cap, Lower, 2½ inch Cylinder, all Brass, Glass Seat, Outside Attachment, Siphon Pump	2 80	
746.	Cap over Crank Shaft, Direct Hitch Power Working Head, with 8 inch Outlet	9 15	
747.	Crank Shaft, 12 inch Stroke, 8 inch Direct Hitch Power Working Head	8 45	
748.	Shield to Horse Power Gear, Upper Half (abandoned)	65	
749.	Shield to Horse Power Gear, Lower Half (abandoned)	65	
750.	Head for Hand Wheel Pump	2 80	
751.	Hinge, one half, for Bicycle Stand, Front Half	40	
752.	Hinge, one half, for Bicycle Stand, Rear Half	40	
753.	Crank for Piston Rod on Head No. 750	1 05	

Rep. No.		Price.	Com- plete.
754.	Hinge, one half, for Bicycle Stand	$0 40	
755.	Hinge, one half, for Bicycle Stand, with Shoulder	40	
756.	Feed Pipe, Improved, with Union End, Hydraulic Spray Pump	1 05	
757.	Base, one half, Right Side, to clamp on, Branch Pipe Pump	1 05	
758.	Base, one half, Left Side, to clamp on, Branch Pipe Pump, 1 inch Discharge Pump	1 05	
759.	Collar for suspending 2½ inch Cylinder in Syphon Pump	2 15	
762.	Projection, Casting only, for 2½ inch Cylinder, Branch Pipe Pump	2 45	
763.	Projection, Casting only, for 3½ inch Cylinder, Branch Pipe Pump	2 45	
764.	Crank Shaft, 8 inch Stroke, Direct Hitch Power	8 45	
765.	Base for Horse Power Crank Shaft, Irrigation Cylinder	14 00	
766.	Cap, Upper, 2 inch Brass Cylinder, Outside Attachment	1 05	
768.	Cap, Upper, 2¼ inch Brass Cylinder, Outside Attachment	1 05	
770.	Cap, Upper, 2½ inch Brass Cylinder, Outside Attachment	1 05	
772.	Cap, Upper, 2¾ inch Brass Cylinder, Outside Attachment	1 05	
774.	Cap, Upper, 3 inch Brass Cylinder, Outside Attachment	1 40	
776.	Cap, Upper, 3¼ inch Brass Cylinder, Outside Attachment	1 40	
778.	Cap, Upper, 3½ inch Brass Cylinder, Outside Attachment	1 40	
780.	Cap, Upper, 3¾ inch Brass Cylinder, Outside Attachment	1 70	
782.	Cap, Upper, 4 inch Brass Cylinder, Outside Attachment	2 15	
784.	Cap, Upper, 4½ inch Brass Cylinder, Outside Attachment	2 80	
786.	Cap, Upper, 5 inch Brass Cylinder, Outside Attachment	3 50	
788.	Cap, Upper, 6 inch Brass Cylinder, Outside Attachment	4 20	
791.	Cap, Lower, 2 inch Brass Cylinder, Outside Attachment, Brass Seat	1 40	
794.	Cap, Lower, 2¼ inch Brass Cylinder, Outside Attachment, Brass Seat	1 40	
796.	Cap, Lower, 2½ inch Brass Cylinder, Outside Attachment, Glass Seat	1 40,	$2 45
798.	Cap, Lower, 2½ inch Brass Cylinder, Outside Attachment, Brass Seat	1 40,	2 45
800.	Cap, Lower, 2¾ inch Brass Cylinder, Outside Attachment, Glass Seat	1 40,	2 45
802.	Cap, Lower, 2¾ inch Brass Cylinder, Outside Attachment, Brass Seat	1 40,	2 80
804.	Cap, Lower, 3 inch Brass Cylinder, Outside Attachment, Glass Seat	1 70,	2 80
806.	Cap, Lower, 3 inch Brass Cylinder, Outside Attachment, Brass Seat	1 70,	2 80
808.	Cap, Lower, 3¼ inch Brass Cylinder, Outside Attachment, Glass Seat	1 70,	2 80
810.	Cap, Lower, 3¼ inch Brass Cylinder, Outside Attachment, Brass Seat	1 70,	2 80
812.	Cap, Lower, 3½ inch Brass Cylinder, Outside Attachment, Glass Seat	1 70,	3 45
814.	Cap, Lower, 3½ inch Brass Cylinder, Outside Attachment, Brass Seat	1 70,	3 45
816.	Cap, Lower, 3¾ inch Brass Cylinder, Outside Attachment, Glass Seat	2 15,	4 20
818.	Cap, Lower, 3¾ inch Brass Cylinder, Outside Attachment, Brass Seat	2 15,	4 20
820.	Cap, Lower, 4 inch Brass Cylinder, Outside Attachment, Glass Seat	3 15,	5 60
822.	Cap, Lower, 4 inch Brass Cylinder, Outside Attachment, Brass Seat	3 15,	5 60
825.	Cap, Lower, 4½ inch Brass Cylinder, Outside Attachment, Brass Seat	4 80,	8 45
828.	Cap, Lower, 5 inch Brass Cylinder, Outside Attachment, Brass Seat	6 30	
831.	Cap, Lower, 6 inch Brass Cylinder, Outside Attachment, Brass Seat	8 45	
834.	Base for Set Length Power Working Head (abandoned)	11 25	
835.	Box, one half, for Base No. 834 (abandoned)	1 40	
836.	Knuckle, one half, for Horse Power Crank Shaft (abandoned)	2 80	
837.	Pitman for 2 inch Wood Rod, Direct Hitch Power Working Head	2 80	
838.	Pitman Box, one half, Direct Hitch Power Working Head	1 40	
841.	Guide for Piston Rod, for Long Set Length Branch Pipe Pumps	40	
842.	Y Attachment, Brass, for Spray Pump Discharge	85	
843.	Projection Casting only, 3½ inch Cylinder, Branch Pipe Pump, Tapped for Three-Way	3 15	
844.	Projection, Casting only, 3 inch Cylinder, Branch Pipe Pump, Tapped for Three-Way	3 15	
846.	Follower, 4 in. Diam. x 4 in. long, for F Plunger, Double Leather..Brass	11 25	
	Iron (abandoned)	5 60	
848.	Spout, Gooseneck, 1 inch Discharge, Union Nut Attachment for Vertical Three-Way	1 70,	3 15
849.	Follower, 3¼ in. Diam. x 4 in. long, for F Plunger, Double Leather..Brass	8 45	
	Iron (abandoned)	3 75	
851.	Standard for Bicycle Truing Device	65	
852.	Gauge for Bicycle Truing Device	65	
853.	Agitator, Improved, for Barrel Spray	1 05	
854.	Clamp for No. 853 Agitator	35	
855.	Head for Cylinder, Geared, Double or Single Boiler Feeder	5 60	
856.	Bracket for Horse Power Traveler Wheel	2 15	
857.	Traveler Wheel for Horse Power Bracket	65	
858.	Crosshead, Bulldozer, Low Down Power Pump (abandoned)	2 80	
859.	Side Arm, Right Side, for Bulldozer (abandoned)	2 80	
860.	Side Arm, Left Side, for Bulldozer (abandoned)	2 80	
861.	Follower, 4 in. Diam. x 2½ in. long, for F Plunger, Double Leather..Brass	9 10	
	Iron (abandoned)	4 55	
862.	Follower, 4 inch Diameter x ½ inch long, for F Plunger, Double Leather, Iron	2 15	
865.	Follower, 3½ in. Diam. x 4 in. long, for F Plunger, Double Leather..Brass	8 45	
	Iron (abandoned)	4 20	
866.	Follower, 3½ in. Diam. x 2½ in. long, for F Plunger, Double Leather..Brass	6 30	
	Iron (abandoned)	3 15	
867.	Follower, 3½ inch Diameter x ½ inch long, for F Plunger, Double Leather, Iron	1 20	
868.	Flange Plate Reducer to 4 inch Pipe for Direct Hitch Power	4 90	
869.	Crank Wheel, 6, 8 and 10 inch Stroke, Set Length Power Working Head	6 30	
870.	Cylinder, 3 inch Diameter, for Double or Single Boiler Feeder	14 00	
871.	Base for Set Length Power Working Head (abandoned)	14 00	
872.	Flange, 7½ inch Diameter, Tapped 3 inch Pipe, for Set Length Working Head	2 80	
873.	Flange, 7½ inch Diameter, Tapped 4 inch Pipe, for Set Length Working Head	2 80	
874.	Cross Head for Set Length Working Head	2 80	
875.	Connection from Cross Head to Pitman Rod, Set Length Working Head	1 20	
876.	Connection from Crank Wheel to Pitman Rod, Set Length Working Head	2 15	
877.	Flange, 11½ inch Diameter, Tapped 4 inch Pipe, 8 inch Irrigation Cylinder	4 20	
878.	Cap, Upper, for Main Body of Siphon Pump, attached with Four Bolts, Fig. 695	4 20	

Rep. No.		Price.	Complete.
879.	Cap, Lower, 2½ inch, all Brass, Brass Seat, for Siphon Pump	$2 80	
880.	Double Elbow with Flange or Projection for Set Length Working Head	4 90	
881.	Flange, 11½ inch Diameter, Tapped 6 inch Pipe, 8 inch Irrigation Cylinder	4 20	
882.	Flange, 11½ inch Diameter, Tapped 8 inch Pipe, 8 inch Irrigation Cylinder	4 20	
883.	Gland for Double or Single Boiler Feed Pump, 3 inch Cylinder	4 20	
884.	Projection, Casting only, 2½ inch Cylinder, Branch Pipe Pump, Tapped for Three-Way	3 15	
886.	Wheel for Cross Head, Set Length Working Head	55	
887.	Cross Head for Single Boiler Feed Pump	4 20	
888.	Head for Back Geared Branch Pipe Pump	4 90	
889.	Pitman Connection for Machine Power, Low Down Pump	2 15	
890.	Bucket Plate with Hubs, for Double Piston, Low Down Fire Pump, 5 inch Cylinder	1 40	
891.	Bucket Plate to pass over Hub Casting No. 890, Low Down Fire Pump	35	
892.	Flange to attach Cylinder to Base, House or Pitcher Pump, 3 inch Brass Cylinder	85	
893.	Collar for suspending 2 inch Brass Cylinder, Siphon Pump	2 15	
894.	Spout for Pitcher Pump, 3 inch Brass Cylinder	2 15	
895.	Base for House and Pitcher Pumps, 3 inch Brass Cylinder	2 15,	$3 80
896.	Top, Reversible, with Handle Fulcrum, Pitcher Pump, 3 inch or 3½ inch Brass Cylinder	65	
897.	Loop for Perfect Bicycle Stand	30	
898.	Flange for 1½ inch Pipe, used on Casting No. 655	1 40	
899.	Flange for 2½ inch Pipe, used on Casting No. 655	1 40	
900.	Handle for Pitcher Pump, 3 inch or 3½ inch Brass Cylinder	1 40	
901.	Check Valve, Iron, for Suction or Discharge, 3 inch Low Down House and Factory Pump.	65	
902.	Air Chamer, to bolt on, 3 inch Low Down House and Factory Pump	6 30	
903.	Head for Cylinder, Plain, 3 inch Low Down House and Factory Pump	2 15	
904.	Head with Stuffing Box for Cylinder, 3 inch Low Down House and Factory Pump	3 50	
905.	Cap over Discharge Valve, 3 inch Low Down House and Factory Pump	65	
906.	Bucket Plate, 3 inch Diameter, 3 inch Low Down House and Factory Pump	35	
907.	Cylinder, 3 inch Brass Lined, Low Down House and Factory Pump	14 00	
908.	Bucket Plate, 2½ inch Diameter, 3 inch Low Down House and Factory Pump	30	
909.	Follower, 2 inch Diameter x ½ inch long, for F Plunger, Double Leather. Brass, $2 15; Iron.	85	
910.	Cage for 2 inch F Plunger. Brass, 1 40; Iron.	55	
911.	Drop Check Valve for 2 inch F Plunger. Brass, 55; Iron.	30	
912.	Flange, 7½ inch Diameter, Tapped 2 inch Pipe, Set Length Working Head	2 80	
913.	Pinion, 2⅜ inch Diameter, Geared Branch Pipe Pump	1 40	
914.	Gear Wheel, 6⅜ inch Diameter, Geared Branch Pipe Pump	4 90	
915.	Connection for 1½ inch Wood Rod, Tapped for 1 inch Pipe, 6 inch Irrigation Cylinder	1 05	
916.	Hose Attachment for Low Down, 1¼ inch Discharge	65	
917.	Flange, 9¼ inch Diameter, Tapped 4 inch Pipe, 6 inch Irrigation Cylinder	3 50	
919.	Follower, 2½″ Diameter x ½″ long, for F Plunger, Double Leather, Brass, $1 90; Iron,	85	
920.	Crank, 4 inch Stroke, Geared Branch Pipe Pump	1 05	
921.	Hose Reducer, Brass, to attach 1¼ Hose to Low Down Fire Pump Discharge	2 80	
922.	Gear, 13½ inch Diameter, Bulldozer Power Pump (abandoned)	8 45	
923.	Fulcrum, Improved, Adjustable Base Lift Pump	2 80	
924.	Valve Seat, Brass, 3 inch Low Down House and Factory Pump	65	
925.	Hand Wheel for Branch Pipe Pump	7 00	
926.	Drop Check Valve, Iron, 4 inch Cylinder	1 05	
927.	Spout for 1¼ inch Union Nut Discharge, Fitted 1 inch Hose Thread (special)	1 75	
928.	Bushing for 1 inch Plunger Tube, Casting No. 655 (abandoned)	1 05	
929.	Connection for Wood Rod, Female End, Tapped ½ inch Rod	30	
930.	Base for Single Boiler Feeder, 11 x 34 inches	14 00	
931.	Head with Stuffing Box for Cylinder, Bulldozer Power Pump (abandoned)	4 20	
932.	Pitman for Geared Branch Pipe Pump	1 40	
934.	Cap, Upper, 5 inch Brass Cylinder, Inside Attachment, Tapped 3 inch Pipe (abandoned).	3 50	
935.	Stuffing Box Nut, Brass, 1⅛ inch Hole, Bulldozer Power Pump, 4 inch or 5 inch Cylinder	2 15	
936.	Valve Weight for Enterprise Float Valve	35	
937.	Arch for Enterprise Float Valve	65	
938.	Lever for Enterprise Float Valve	1 05	
939.	Valve Seat, Brass, for Enterprise Float Valve, 1 inch Pipe	1 40	
941.	Union Nut, for Suction or Discharge, Low Down Pump, ⅛ inch smaller than No. 438 (special)	1 05	
942.	Coupling for Pitman, Hand Wheel Pump	55	
943.	Eye for Piston Rod, Hand Wheel Pump	65	
944.	Base for House and Pitcher Pumps, 3½ inch Brass Cylinder	2 80,	4 90
945.	Link for Pitman, Hand Wheel Pump	55	
946.	Flange to attach Cylinder to Base of House or Pitcher Pump, 3½ inch Brass Cylinder	85	
947.	Spout for Pitcher Pump, 3½ inch Brass Cylinder	2 45	
948.	Cross Head, Bulldozer Power Pump, 4 inch or 5 inch Cylinder	5 60	
949.	Side Arm, Right, for Double or Single Boiler Feed Pump	2 80	
950.	Side Arm, Left, for Double or Single Boiler Feed Pump	2 80	
952.	Follower, 3¼ in. Diam. x ½ in. long for F Plunger, Double Leather, Brass, $3 10; Iron	1 20	
955.	Follower, 3 in. Diam. x ½ in. long, for F Plunger, Double Leather	1 05	
958.	Follower, 2¾ in. Diam. x ½ in. long, for F Plunger, Double Leather, Brass, 2 50; Iron	1 05	
961.	Follower, 2½ in. Diam. x ½ in. long, for F Plunger, Double Leather. Iron	85	
964.	Follower, 2¼ in. Diam. x ½ in. long, for F Plunger, Double Leather, Brass, 1 90; Iron	85	
968.	Shield over Gear, Bulldozer Power Pumps	1 05	
969.	Fulcrum, Improved, Adjustable Base Force Pump	2 80	
970.	Connection for 2½ inch Pipe, Suction or Discharge, Low Down Pump	65	
971.	Piston Rod Guide, Single Boiler Feeder	2 80	
972.	Connection for Wood Rod, Siphon Pump (abandoned)	1 05	
973.	Cap, Lower, 2½ inch all Brass Cylinder, Inside Attachment, Tapped 1½ inch Pipe	2 80	
974.	Cap, Upper, 2½ inch all Brass Cylinder, Inside Attachment, Tapped 1½ inch Pipe	2 15	
975.	Cap, Lower, 2¼ inch all Brass Cylinder, Inside Attachment, Tapped 1½ inch Pipe	2 55	
976.	Cap, Upper, 2¼ inch all Brass Cylinder, Inside Attachment, Tapped 1½ inch Pipe	1 80	

Rep. No.		Price.	Complete.
1004.	Projection, Casting only, 4 inch Cylinder, Branch Pipe Pump, Tapped for Three-Way...	$3 80	
1005.	Base for California Working Head, 4 inch Suction, 3 inch Discharge..............	5 60	
1006.	Drop Check Valve, Tilting, 3 ½ inch Cylinder, House and Pitcher Pumps............	65	
1007.	Projection, Casting only, 4 inch Cylinder, Branch Pipe Pump.....................	3 15	
1008.	Base, one half, for 4 inch Cylinder, Branch Pipe Pump, 1 ¼ inch Discharge Pipe......	1 05	
1009.	Air Chamber for 1 ½ inch Suction or Discharge Pipe (also furnished with No. 355 Power Pump)	5 60	
1010.	Cap, Lower, 2 ¼ inch Brass Lined Cylinder, Glass Seat, Outside Attachment, Screw Cap, Tapped 1 ¼ inch Pipe....................................	1 40,	$2 45
1011.	Cap, Upper, 2 ¼ inch Brass Lined Cylinder, Outside Attachment, 1 ¼ inch Pipe......	1 05	
1012.	Flanged Tee, 7 ½ inch Diameter, Tapped 4 inch Pipe..........................	5 60	
1013.	Head for House Lift Pump, 3 inch Brass Cylinder (abandoned)..................	4 20	
1014.	Handle, 41 inches long, 6, 8 and 10 inch Stroke, Wheeler Head..................	2 15	
1015.	Spout with Cock, 1 ½ inch Discharge, House Force Pumps, 3 or 3 ½ inch Brass Cylinder.	2 15	
1016.	Hose Nipple, 1 inch Brass..	65	
1017.	Base with Bracket, House Force or lift Pump, 3 inch Cylinder (abandoned)..........	2 45	
1018.	Bushing Seat for Vertical Three-Way, 1 ½ inch Discharge, for Branch Pipe Pump......	1 05	
1019.	Bracket for House Pump, 3 inch Cylinder (abandoned)........................	65	
1020.	Bracket for House Pump, 3 ½ inch Cylinder (abandoned)......................	65	
1021.	Base with Bracket, House Force or Lift Pump, 3 ½ inch Cylinder (abandoned)........	2 80	
1022.	Eye for ⅝ inch Piston Rod, Siphon Spout, Force or Lift Pump..................	55	
1023.	Cap, Upper, 6 inch Brass Lined Cylinder, Outside Attachment, Tapped 3 inch Pipe....	4 30	
1024.	Cap, Lower, 6 in. Brass Lined Cylinder, Outside Attachment, Iron Seat, Tapped 3 in. Pipe	8 45	14 75
1025.	Follower, Iron, for Drop Valve, 3 inch Plunger, House or Pitcher Pump............	55	
1026.	Main Frame for Horse Power, Improved..	28 00	
1027.	Drop Check Valve for 3 inch F Plunger......................Brass, $0 65; Iron,	30	
1028.	Master Wheel for Horse Power, Improved......................................	21 00	
1029.	Drop Check Valve for 3 ½ inch F Plunger....................Brass, 1 05; Iron,	35	
1030.	Drop Check Valve for 3 ¼ inch F Plunger....................Brass, 1 05; Iron,	35	
1031.	Drop Check Valve for 2 ½ inch F Plunger....................Brass, 55; Iron,	30	
1032.	Drop Check Valve for 3 ¾ inch F Plunger....................Brass, 1 40; Iron,	40	
1033.	Drop Check Valve for 4 inch F Plunger....................Brass, 1 40; Iron,	40	
1034.	Drop Check Valve for 2 ¾ inch F Plunger....................Brass, 65; Iron,	30	
1035.	Stand, Left Side, Improved, for Imperial and Regulator Pumps...................	3 50	
1036.	Stand, Right Side, Improved, for Imperial and Regulator Pumps..................	3 50	
1037.	Handle, 40 inches long, for Tubular Well Stand, Force or Lift Plain Head...........	2 00	
1038.	Head, Windmill, 6 inch Stroke, Fig. 921 Pump................................	4 20	
1039.	Spout, Siphon, 1 ½ in. Discharge, House Force or Lift Pump, 3 or 3 ½ in. Brass Cylinder.	85	
1040.	Body for Three-Way, 1 ½ inch Discharge, Heavy Submerged Cylinder Pump..........	2 15	
1041.	Base for Heavy Submerged Cylinder Windmill Pump, Three-Way Attachment, 4 in. Cylinder	3 50	
1042.	Handle for Windmill Head, Fig. 921 Pump.....................................	1 70	
1043.	Head for Windmill, 6 inch Stroke, Tubular Well Stand, Force or Lift...............	3 50	
1044.	Head for House Force or Lift Pump, 1 ½ inch Spout Discharge, 3 inch Brass Cylinder..	4 20	
1045.	Collar over Master Wheel, Horse Power, Improved..............................	65	
1046.	Sleeve for Lever, 5 inch Beam, Horse Power, Improved..........................	5 60	
1047.	Tee Coupling, for ⅝ inch Piston Rod, Fig. 921 Pump...........................	55	
1048.	Connection for Wood Rod, Fig. 921 Pump.....................................	55	
1049.	Cap, Lower, 2 ¼ inch Brass Cylinder, Inside Attachment, Brass Seat, Drop Valve......	1 40	
1050.	Handle for House Force or Lift Pump, 3 or 3 ½ inch Brass Cylinder................	1 40	
1051.	Gear, 13 ½ inch Diameter, 66 Teeth, 5 Pitch, Bulldozer Power Pumps..............	11 25	
1051 ½.	Bushing for Wrist Pin...............................Iron, $1 40; Brass,	4 20	
1052.	Pinion for Gear, Steel, 11 Teeth, 5 Pitch, Bulldozer Power Pump..................	3 50	
1053.	Base for Double Boiler Feed Pump, 10 ½ x 48 inches............................	14 00	
1054.	Foot Valve, 2 inch, Upper Half..	1 40	
1055.	Foot Valve, 2 inch, Valve Seat..	65	
1056.	Foot Valve, 2 inch Lower Half...	1 05	
1057.	Eye for Piston Rod, for Wood Rod Connection, Knuckle Joint, Siphon Pump..........	1 05	
1058.	Base, one half, for Adjustable Base Lift Pump.................................	1 05	
1059.	Spout, Tapped for Aerator, Pitcher Pump, 3 inch Brass Cylinder..................	2 15	
1060.	Head for House Force or Lift Pump, 1 ½ inch Spout Discharge, 3 ½ inch Brass Cylinder.	4 50	
1061.	Cap, Upper, 5 inch Brass Cylinder, Outside Attachment, Tapped 3 inch Pipe..........	3 50	
1062.	Link, House Force Pump, 3 inch or 3 ½ inch Brass Cylinder......................	55	
1063.	Cap, Lower, 5 inch Brass Cylinder, Outside Attachment, Brass Seat, Tapped 3 inch Pipe.	6 30	
1064.	Pulley, 12 inch diameter, 3 inch face { In ordering state whether Tight }..........	4 20	
1065.	Pulley, 16 inch diameter, 4 inch face { or Loose Pulley is desired }..........	5 60	
1073.	Reservoir Head, with Spout, for Adjustable Base Lift Pump......................	2 80	
1074.	Strainer, one half, 3 inch Pipe...	65	
1075.	Ring for Guide Post (Special) for Long Stroke only, for California Working Head......	2 15	
1076.	Cap, Lower, 3 inch Brass Cylinder, Inside Attachment, Glass Seat, Tapped 1 ½ inch Pipe (abandoned)	1 70,	3 80
1077.	Cap, Upper, 3 in. Brass Cylinder, Inside Attachment, Tapped 1 ½ in. Pipe (abandoned)..	1 40	
1078.	Valve for Cock Spout, Malleable, for House Pump, Brass Cylinder..................	65	
1079.	Disc for Valve, Cock Spout, House Pump.......................................	30	
1080.	Follower, 3 ¼ in. Diam. x ½ in. long, for F Plunger, Single Leather..Brass, $2 15; Iron,	60	
1081.	Follower, 4 in. Diam. x ½ in. long, for F Plunger, Single Leather..Brass, 2 80; Iron,	85	
1084.	Cylinder, 5 inch Brass Lined, with Base, Bulldozer Power Pump..................	42 00	
1085.	Head and Handle Connection, with Piston Guide, Siphon Pump, Fig. 798............	7 00	
1086.	Crosshead for Siphon Pump, Handle Attachment, Fig. 798 (abandoned).............	1 70	
1087.	Bucket Plate, 4 ½ inch Diameter, Bulldozer Power Pump, 5 inch Cylinder	65	
1088.	Piston Yoke for Wood Rod, Siphon Pump.......................................	2 15	
1089.	Handle, Wide Fork, for Siphon Pump, Fig. 798..................................	2 80	
1090.	Head for Cylinder, with Yoke for Piston Guide, Bulldozer Power Pump, 4 inch Cylinder..	8 45	
1091.	Bushing for Casting No. 1090...	1 05	
1092.	Cylinder, 4 inch Brass Lined, with Base, Bulldozer Power Pump..................	56 00	

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Rep. No.		Price.	Complete.
1093.	Head, Cylinder, for Shaft Bearings on Nos. 351, 353 and 362 Pumps	$9 75	
1094.	Bushing for Casting No. 1085	1 05	
1095.	Bearing Cap, 1¼ inch Shaft, for all Shaft Hangers	2 15	
1096.	Shaft Hanger, Bulldozer Power Pump, 4 inch or 5 inch Cylinder	4 20	
1097.	Air Chamber to bolt on, Top and Side Discharge, Bulldozer Power Pump, 4 inch or 5 inch Cylinder	7 00	
1099.	Cap over Rear Discharge Valve, Bulldozer Pump, 4 inch Cylinder (abandoned)	2 15	
1100.	Gear Frame for Set Length Working Head	14 00	
1101.	Base for Set Length Working Head	7 00	
1102.	Valve Seat, Brass, Threaded for Suction, Bulldozer Power Pump, 4 inch Cylinder	2 15	
1103.	Valve Seat, Brass, Threaded, for Discharge, Bulldozer Power Pump, 4 inch Cylinder	2 80	
1104.	Check Valve, Brass, for Rear Discharge Bulldozer Power Pump, 4 inch Cylinder	4 20	
1105.	Bucket Plate, 4 inch Diameter, Bulldozer Power Pump, 4 inch Cylinder	65	
1106.	Bucket Plate, 3½ inch Diameter, Bulldozer Power Pump, 4 inch Cylinder	65	
1107.	Side Arm, Right or Left, Bulldozer Power Pump, 4 inch Cylinder	7 00	
1108.	Cap over Front Discharge Valve, Bulldozer Power Pump, 4 inch Cylinder (abandoned)	1 40	
1109.	Air Chamber to bolt on, California Favorite Spray Pump	7 00	
1110.	Head, Windmill, 6 inch Stroke, Tubular Well Stand, Lift	3 50	
1112.	Coupling, ½ inch Pipe x ½ inch Rod, California Working Head	65	
1113.	Bushing Seat for Vertical Three-Way, 1¼ inch Discharge	1 05	
1114.	Handle for Bucket Spray Pump, Improved	40	
1115.	Head for Cylinder, with Yoke for Piston Guide, Bulldozer Power Pump, 5 inch Cylinder.	7 00	
1116.	Cap, Upper, 4½ inch Brass Cylinder, Inside Attachment	2 80	
1117.	Cylinder Head for Gear, Bulldozer Power Pump, 5 inch Cylinder (abandoned)	7 00	
1118.	Side Arm, Right, Bulldozer Power Pump, 5 inch Cylinder	4 20	
1119.	Side Arm, Left, Bulldozer Power Pump, 5 inch Cylinder	4 20	
1120.	Cap, Lower, 4½ inch Brass Cylinder, Outside Attachment, Glass Seat	4 90,	$8 45
1121.	Elbow, Brass, to attach Discharge Hose to Pump, Imperial Bucket Spray	35	
1122.	Bucket Casting, Lower, 4½ inch Cylinder	65	
1123.	Bucket Casting, Upper, 4½ inch Cylinder	60	
1124.	Base for Fig. 813 Bulldozer Working Head	28 00	
1125.	Cap with Overflow, for Cylinder, Bucket Spray Pump	35	65
1126.	Bearing Cap for Gear Shaft on Nos. 351, 353 and 362 Pumps	4 20	
1127.	Bearing Cap for Pulley Shaft on Nos. 351, 353 and 362 Pumps	4 20	
1128.	Reservoir Head, with Spout, Adjustable Base Lift Pump, 3½ inch Cylinder	2 80	
1129.	Hand Wheel, with Stem, for Cock Spout, House Force Pump	55	
1130.	Connection to attach Lead or 1¼ inch Iron Pipe to House or Pitcher Pump, 3 inch Brass Cylinder	1 05	
1131.	Lid for Oil Box, Fig. 813 Bulldozer Working Head (abandoned)	55	
1132.	Air Chamber for Fig. 813 Bulldozer and Fig. 879 Myers Power Working Head	14 00	
1133.	Crosshead for Double Boiler Feed Pump	7 00	
1134.	Crosshead for Fig. 813 Bulldozer Working Head	5 60	
1135.	Union Nut for Piston Rod, Fig. 813 Bulldozer Working Head	2 15	
1136.	Coupling, Flanged, for Union Nut, Fig. 813 Bulldozer Working Head	65	
1137.	Flange, 9¾ inch Diameter, Tapped 3 inch Pipe, Suction, Fig. 813 Bulldozer Working Head	4 20	
1138.	Flange, 6 inch Diameter, Tapped 2½ inch Pipe, Discharge, Fig. 813 Bulldozer and Fig. 879 Myers Working Head	1 40	
1139.	Side Arm, Right or Left, Fig. 813 Bulldozer Working Head	5 60	
1140.	Flange, 6 inch Diameter, Tapped 3 inch Pipe, Discharge, Fig. 813 Bulldozer and Fig 879 Myers Working Head	1 40	
1141.	Cap, Upper, with Stuffing Box for Air Chamber, Fig. 813 Bulldozer and Fig. 879 Myers Working Head (abandoned)	8 45	
1142.	Yoke for Piston Guide, Fig. 813 Bulldozer, Myers Working Head	8 45	
1143.	Bushing for 1¼ Piston Rod, for Casting No. 1142	2 15	
1144.	Bearing Cap for Gear Shaft, No. 359 Working Head	4 20	
1145.	Bearing Cap for Pulley Shaft, No. 359 Working Head	4 20	
1146.	Shield over Gear, Fig. 813 Bulldozer Working Head	1 05	
1147.	Stuffing Box Nut with Oil Cup, Brass, Fig. 813 Bulldozer and Fig. 879 Myers Working Head	2 80	
1148.	Lid to Oil Box, Castings No. 1144 and No. 1145, Fig. 813 Bulldozer Working Head	35	
1149.	Shaft Hanger, Fig. 813 Bulldozer Working Head	4 20	
1150.	Cap, Lower, 2¼ inch Brass Lined Cylinder, Outside Attachment, Brass Seat	1 40,	2 45
1151.	Cap, Upper, 2 inch Brass Lined Cylinder, Outside Attachment	1 05	
1152.	Cap, Lower, 2 inch Brass Lined Cylinder, Outside Attachment, Brass Seat	1 40,	2 15
1155.	Flange, 9¾ inch Diameter, Tapped 2½ inch Pipe, Suction, Fig. 813 Bulldozer Working Head	4 20	
1156.	Lid to Oil Box, Castings No. 1126 and No. 1127, Bulldozer Power Pump, 4 or 5 inch Cylinder	35	
1157.	Stuffing Box Head for 1¼ inch Pipe	1 70	
1158.	Stuffing Box Head for 1½ inch Pipe	2 15	
1159.	Strainer, one half, 2 inch Hose, Plain End	35	
1160.	Nut, Brass, for ⅜ inch Steel Rod	20	
1161.	Hose Nipples, 1¼ inch, Brass	1 05	
1162.	Follower, 3 inch Diameter x ½ inch long, for F Plunger, Single Leather, Brass only	1 40	
1164.	Cap, Lower, 3 inch Brass Lined Cylinder, Outside Attachment, Glass Seat, Tapped 1½ inch Pipe (abandoned)	1 70,	2 80
1165.	Cylinder with Base, 4 inch Polished, Century Low Down } In ordering state whether Brass Lined or Polished	9 75	
1165.	Cylinder with Base, 4 inch Brass Lined, Century Low Down } In ordering state whether Brass Lined or Polished	14 00	
1166.	Cap, Lower, 3 inch, all Brass, Outside Attachment, Siphon Pump	3 35	
1167.	Cap, Upper, 4½ inch Brass Lined Cylinder, Outside Attachment	2 80	
1168.	Cap, Lower, 4½ inch Brass Lined Cylinder, Outside Attachment, Brass Seat	4 90,	8 45
1169.	Cap, Lower, 4½ inch Brass Lined Cylinder, Outside Attachment, Glass Seat	4 90,	8 45
1170.	Cap, Lower, 4½ inch Brass Cylinder, Inside Attachment, Glass Seat	4 90,	8 45

Rep. No.		Price.	Complete.
1171.	Cap, Lower, 3¼ inch Brass Lined Cylinder, Outside Attachment, Brass Seat, Tapped 1¼ inch	$1 70,	$2 80
1172.	Cap, Lower, 3¼ inch Brass Lined Cylinder, Outside Attachment, Brass Seat, Tapped 1½ inch	1 70	
1173.	Air Chamber, Century Low Down, 4 inch Cylinder	2 80	
1174.	Hood over Valves, Century Low Down, 4 inch Cylinder (4 or 6 Holes, state which)	2 80	
1175.	Head for Cylinder, Plain, Century Low Down, 4 inch Cylinder	2 80	
1176.	Head for Cylinder, with Stuffing Box and Attachment for Oscillator, Century Low Down.	3 50	
1178.	Follower, 2¾ inch Diameter x ½ inch long, for F Plunger, Single Leather, Brass	1 40	
1179.	Collar for end of 1 inch Shaft, Geared Branch Pipe Pump	55	
1180.	Check Valve, Bronze, Suction or Discharge, Bulldozer Power Pump, 4 or 5 inch Cylinder (abandoned on 5 inch Cylinder)	2 15	
1181.	Flange, 9¾ inch Diameter, Tapped 4¼ inch Casing, Suction, Fig. 813 Bulldozer Working Head	4 20	
1183.	Frame for Trolley, Malleable, Door Hanger	1 05	
1184.	Base for Air Chamber and Cylinder, Improved Barrel Spray Pump	2 15	
1185.	Cap, Upper, for Air Chamber, with Guide for Piston Rod and Discharge Pipe, Improved Barrel Spray Pump	2 15	
1186.	Flange, 9¼ inch Diameter, Tapped 3 inch Pipe, 6 inch Irrigation Cylinder	4 50	
1187.	Cap, Lower, 5 inch Brass Lined Cylinder, Outside Attachment, Brass Seat	6 30,	11 70
1188.	Bucket Plate, 3¾ inch Diameter, Century Low Down, 4 inch Cylinder	35	
1189.	Bucket Plate, 4 inch Diameter, Century Low Down, 4 inch Cylinder	35	
1190.	Flange, 11¼ inch Diameter, Tapped 5⅝ inch Casing, 8 inch Irrigation Cylinder	3 75	
1191.	Frame for Balance Wheel and Spur Pinion, 1¼ inch Shaft, Horse Power and Low Down Combined	4 20	
1192.	Pitman for Combination Pumping Jack, Tapped 1 inch Pipe	3 50	
1193.	Connection for Walking Beam, 6, 8 and 10 inch Stroke, Tapped 1 inch Pipe, Combination Pumping Jack	65	
1194.	Balance Wheel, 12 inch Diameter, 3½ inch Face, weight 65 lbs., Combination and Horse Power Pumping Jack	8 45	
1195.	Walking Beam for Combination Pumping Jack, 6, 8 and 10 inch Stroke	4 20	
1196.	Cylinder with Base, 5 in. Polished, Ashland or Century Low Down {In ordering state whether	9 75	
1196.	Cylinder with Base, 5 in. Brass Lined, Ashland or Century Low Down Brass Lined or Polished.}	14 00	
1197.	Main Frame, Combination Pumping Jack	14 00	
1198.	Brass Nut for Stem of Drop Valves (replaces No. 559)	15	
1199.	Brass Nut for 1 inch Upper Plunger	30	
1200.	Spout, Gooseneck, Union Nut Attachment, 1¼ inch Discharge, Vertical Three-Way	2 15	
1201.	Stuffing Box Nut, Brass, for Cock Spout, House Pump	55	
1202.	Base Plate for Combination Pumping Jack	7 00	
1203.	Head for Cylinder, with Stuffing Box and Attachment for Oscillator, Ashland or Century Low Down, 5 inch Cylinder	3 50	
1204.	Pitman Connection, Horse Power and Low Down Pump Combined	3 50	
1205.	Head for Cylinder, Plain, Ashland or Century Low Down, 5 inch Cylinder	2 80	
1206.	Flange, 9¾ inch Diameter, Tapped 4 inch Pipe, Suction, Fig. 813 Bulldozer Working Head	4 20	
1207.	Valve Seat, Brass, for Cylinder Base, Hydraulic Spray Pump	65	
1208.	Follower, 3½ inch Diameter x ½ inch long, for F Plunger, Single Leather, Iron	60	
1209.	Hood over Valves, Ashland or Century Low Down, 5 inch Cylinder	3 50	
1210.	Wheel for Trolley, Door Hanger	35	
1211.	Windmill Pin, Malleable	20	
1212.	Loop to attach Straps to Can, Knapsack Spray Pumps	15	
1213.	Main Frame, Right or Left Side, Giant Conveyor	16 80	
1214.	Valve Seat, Brass, for Rubber Check Valve with Spring, Bulldozer Power Pump, 5 inch Cylinder	1 40	
1215.	Connection to attach Lead or 1½ inch Iron Pipe to House or Pitcher Pump, 3½ inch Brass Cylinder	1 05	
1216.	Knocker for Giant Conveyor	4 20	
1217.	Retaining Hook, Giant Conveyor	4 20	
1218.	Male End, 1 inch Union	30	
1219.	Hand Wheel for Branch Pipe Pump, Special Heavy	8 40	
1220.	Follower, 2 inch Diameter x ½ inch long, for F Plunger, Single Leather, Brass, $1 10; Iron	40	
1221.	Follower, 2¼ inch Diameter x ½ inch long, for F Plunger, Single Leather, Brass, $1 10; Iron	40	
1222.	Follower, 2½ inch Diameter x ½ inch long, for F Plunger, Single Leather	40	
1223.	Follower, 2¾ inch Diameter x ½ inch long, for F Plunger, Single Leather	50	
1224.	Follower, 3 inch Diameter x ½ inch long, for F Plunger, Single Leather	50	
1225.	Rope Sheave for Giant Conveyor	4 20	
1226.	Cap over Discharge, Rubber Check Valve, Bulldozer Power Pump, 5 inch Cylinder	1 40	
1227.	Reservoir Head, Extra Large Spout, 1¾ inch Discharge, for Tubular Well Stand, Force or Lift	3 50	
1228.	Follower, 4½ inch Diameter x ½ inch long, for F Plunger, Single Leather, Brass, $3 50; Iron	1 40	
1229.	Drop Check Valve for 4½ inch F Plunger. Brass, $1 70; Iron	65	
1230.	Cage for 4½ inch F Plunger. Brass, 3 85; Iron	1 70	
1231.	Handle, Cast, to bolt on, Century Low Down	3 50	
1232.	Eye, Tapped ½ inch Hole, for 13/16 inch Brass Piston Rod, Century Low Down	65	
1233.	Projection for 1 inch Plunger Tube, Single Acting Pump, Tapped 1¼ inch Pipe	2 80	
1234.	Connection for Pipe Fulcrum and Base, Combination Pumping Jack	1 05	
1235.	Balance Wheel for Horse Power and Low Down, and Set Length Working Head	8 45	
1236.	Eye for 13/16 inch Piston Rod, Ashland Low Down	65	
1237.	Handle Socket for Wood Handle, Low Down Pump	1 80	
1238.	Plunger Stem, Upper, ½ inch Rod x ⅜ inch Pipe, Cast Iron Disc, for 4 inch Pump	65	
1239.	Sheave for Fork Pulley, Giant Conveyor	4 20	
1240.	Base, Myers Power Working Head, Tapped 4 inch Pipe	4 20	
1241.	Air Chamber, 3 inch Flanged Discharge, Siphon Pump, Fig. 873	7 00	

Rep. No.		Price.	Complete.
1242.	Stand for Siphon Pump, Fig. 873	$14 00	
1243.	Cap, Upper, with Stuffing Box, Siphon Pump, Fig. 873	5 60	
1244.	Base, one half, Right Side, Ashland Three-Way Pump	1 40	
1245.	Base, one half, Left Side, Ashland Three-Way Pump	1 40	
1246.	Collar for suspending 3½, 4, 4½ inch Brass Cylinder, Siphon Pump	2 80	
1247.	Base for Siphon Pump, Fig. 873	4 20	
1248.	Bushing for Stuffing Box, Single Acting Pump, used with Casting No. 844	1 05	
1249.	Bushing for 1 inch Plunger Tube, Single Acting Pump, used with Casting No. 844	1 05	
1250.	Head, Wheeler, 6, 8, and 10 inch Stroke, Ashland Three-Way Pump	4 20	
1251.	Cap for Base and Guide for Piston Rod, Ashland Three-Way Pump	65	
1252.	Reducer, Cast, Threaded 2 inch, Tapped 1¼ inch and 1½ inch, Tubular Well Stand, Lift	1 40	
1253.	Base, one half, for Branch Pipe Pump, Shallow Well, Three-Way Discharge	1 05	
1254.	Head for Reversible Fulcrum, House Force or Lift Pump, 1½ inch Spout Discharge, 3 inch Brass Cylinder (state whether Force or Lift)	4 20	
1255.	Bushing, 3 x 2½ inches, for Casting No. 708	65	
1256.	Traveler Wheel, Steel Track, Giant Conveyor	4 20	
1257.	Fulcrum, Reversible, House Force or Lift Pump, 3 inch Cylinder	1 40	
1258.	Follower, 5 in. Diameter x ½ in. long, for F Plunger, Single Leather. . Brass, $4 20; Iron	2 15	
1259.	Drop Check Valve for 5 inch F Plunger. Brass, 2 15; Iron	85	
1260.	Female End, ½ inch Hose, Tapped ¼ inch Pipe Thread	40	
1261.	Bucket Plate with Hub, 3 inch Diameter, for Double Piston only, Low Down House and Factory Pump	1 40	
1262.	Cock Spout, Three-Way Casting, House Force Pump, 3 inch or 3½ inch Cylinder	1 40	
1263.	Spout with Cock, 1½ inch Discharge, House Force Pump, 3 inch or 3½ inch Cylinder	1 40	
1264.	Follower, 6 in. Diameter x ½ in. long, for F Plunger, Single Leather. . Brass, $5 60; Iron	3 40	
1265.	Drop Check Valve, for 6 inch F Plunger. Brass, 2 80; Iron	1 05	
1266.	Handle Socket for Cast Handle, Century Low Down	2 15	
1267.	Handle, Cast Iron, used with Repair No. 1266, Century Low Down	3 15	
1268.	Follower, all Brass, 2½ inch Diameter x ½ inch long, for F Plunger, Single Leather	1 10	
1269.	Follower, all Brass, 3½ inch Diameter x ½ inch long, for F Plunger, Single Leather	2 15	
1270.	Drop Check Valve for 2¼ inch F Plunger (abandoned). Brass, $0 55; Iron	30	
1272.	Main Frame, Fig. 881, Countershaft and Fig. 943 Pumping Jack	42 00	
1273.	Bearing Cap for Gear Shaft, Fig. 881 Countershaft and Fig. 943 Pumping Jack	4 20	
1274.	Bearing Cap for Pulley Shaft, Fig. 881 Countershaft and Fig. 943 Pumping Jack	4 20	
1275.	Gear Wheel, 12, 16 and 20 inch Stroke, Fig. 881 Countershaft and Fig. 943 Pumping Jack	28 00	
1276.	Pinion for Gear No. 1275	5 60	
1278.	Piston Arm for Wrist Pin, Fig. 881 Countershaft and Fig. 943 Pumping Jack	4 20	
1280.	Fulcrum for Single Acting House Force Pump	2 15	
1281.	Head with Wall Bracket Attachment, House Force or Lift Pump, Reversible Fulcrum, 3 inch Cylinder	4 20	
1282.	Wall Bracket for House Force or Lift Pump, 3 inch or 3½ inch Cylinder	1 40	
1283.	Stuffing Box with Extension Pipe, Single Acting House Force Pump	1 40	
1284.	Fulcrum Link for Casting No. 1280, Single Acting House Force Pump	55	
1285.	Cap, Lower, 3 inch Brass Cylinder, Glass Seat, House Pump with Wall Bracket Attachment	1 70,	$3 15
1286.	Handle for Single Acting House Force Pump	1 40	
1287.	Sheave for Guide Roller, Door Hanger	40	
1288.	Cross Head for Myers Working Head	1 70	
1289.	Bushing for 1⅛ inch Piston Rod, for Casting No. 1142	2 15	
1290.	Eye for Piston Rod, Single Acting House Force Pump	55	
1291.	Piston Yoke for Wood Rod, Myers Working Head	2 80	
1292.	Guide for Windmill Bar, used with Casting No. 622	40	
1293.	Bucket Plate, 4⅝ inch Diameter (Improved), for all Low Down Pumps having 5 inch Cylinder	35	
1294.	Bucket Plate, 5 inch Diameter (Improved), for all Low Down Pumps having 5 inch Cylinder	35	
1295.	Hose Nipple, 1¼ inch Hose Thread x 2 inch Pipe Thread	65	
1296.	Hood over Valves, Side Outlet, Ashland Low Down, for Horse Power Pump	3 50	
1297.	Cap for Reversible Fulcrum, House Lift Pump, 3 inch or 3½ inch Cylinder	1 05	
1298.	Cap, Lower, 2 inch, all Brass, Brass Seat, Siphon Pump	2 15,	2 50
1299.	Follower, Double Leather, 4½ in. Diameter x 2½ in. long (aban'd). . Brass, $12 65; Iron	6 30	
1300.	Cylinder, 3½ inch Diameter for Well Force Pump. Polished, $6 40; Brass Lined	9 10	
1301.	Head with Guide for Windmill Bar, Well Force Pump, 3 or 3½ inch Cylinder	4 90	
1302.	Fulcrum, Well Force Pump, 3 or 3½ inch Cylinder	65	
1303.	Base, Well Force Pump, 3 or 3½ inch Cylinder	2 80	
1304.	Handle, Well Force Pump, 3 or 3½ inch Cylinder	1 40	
1305.	Cylinder, 3½ in. Diameter, Fig. 958, Vertical Power Force Pump, Polished, $5 60; Brass Lined	8 45	
1306.	Base, Fig. 958, Vertical Power Force Pump, 3 or 3½ in. Cylinder, Tapped for 1½ inch Pipe, takes 3½ inch Glass Seat	4 20	
1307.	Air Chamber for Nos. 340, 341, 344, 345, R460, 480 Pumps	4 90	
1308.	Head, Fig. 958, Vertical Power Force Pump, 3 or 3½ inch Cylinder	9 75	
1309.	End Bearing Cap for Side Opening for Crank Shaft, Fig. 958, Vertical Power Force Pump, 3 or 3½ inch Cylinder	3 50	
1310.	Gland for 1¼ inch Shaft, Fig. 958, Vertical Power Force Pump, 3 or 3½ inch Cylinder	1 05	
1311.	Crank Shaft, Steel, Fig. 958, Vertical Power Force Pump, 3 or 3½ inch Cylinder	5 60	
1312.	Extension for Crank Shaft, Fig. 958, Vertical Power Force Pump, for 3 or 3½ in. Cylinder.	1 40	
1313.	Plunger, 3½ inch Diameter, Fig. 958, Vertical Power Force Pump	2 80	
1314.	Base for No. 364 Bulldozer Working Head	91 40	
1315.	Flange, 14⅝ inch Diameter, Tap 4 inch Suction, No. 364 Bulldozer Working Head	9 85	
1316.	Air Chamber, Tapped 5 inch Discharge, No. 364 Working Head	56 25	
1317.	Flange, 12¾ inch Diameter, Stuffing Box, No. 364 Bulldozer Working Head	16 85	
1318.	Yoke for Piston Guide, No. 364 Bulldozer Working Head	14 05	
1319.	Crosshead, No. 364 Bulldozer Working Head	8 45	
1320.	Side Arm, Right or Left, No. 364 Bulldozer Working Head	8 45	
1321.	Gear, 120 Teeth, 5 Pitch, Right Side, No. 364 Bulldozer Working Head	35 15	

Rep. No.		Price.	Complete.
1321½.	Bushing for Wrist Pin	$2 80	
1322.	Pinion for Gear, 15 Teeth, 5 Pitch, No. 364 Bulldozer Working Head	5 60	
1323.	Shield over Gear, No. 364 Bulldozer Working Head	1 40	
1324.	Bearing Cap for Gear Shaft on No. 364 Bulldozer Working Head	4 20	
1325.	Cylinder, 3 inch Brass Lined, with Base, for No. 362 Pump	49 20	
1327.	Side Arm, Left, for No. 362 Pump	5 60	
1328.	Plunger Casting (Double), for 4 inch Century Double Handle Fire Pump	2 80	
1329.	Cylinder, 3 inch Diameter, for Well Force Pump........Polished, $5 60; Brass Lined,	8 45	
1330.	Bearing Cap for Pulley Shaft on No. 364 Bulldozer Working Head	4 20	
1331.	Flange for Piston and Crosshead, No. 364 Bulldozer Working Head	2 15	
1332.	Coupling for 1 3/16 inch Piston, to ½ inch Rod, Threaded and held by Set Screw	55	
1333.	Bushing for 1½ inch Piston for Yoke No. 1318, No. 364 Bulldozer Working Head	2 15	
1334.	Gland for 1½ inch Piston, No. 364 Bulldozer Working Head	3 50	
1335.	Water Conductor	1 05	
1336.	Follower, 4½ inch Diameter x 4 inch long, Double Leather (abn'd)..Brass, $14 60; Iron,	7 30	
1337.	Cylinder, 3 in. Diameter, for Fig. 958, Vertical Power Pump, Polished, $4 90; Brass Lined,	7 70	
1338.	Crosshead, Tapped for Set Screw, for Siphon Handle Attachment, Fig. 798	1 15	
1339.	Ring for Water Conductor	35	
1340.	Guide for Piston Rod, House Force and Lift Pump, Reversible Handle	40	
1341.	Gear, 120 Teeth, 5 Pitch, Left Side, No. 364 Working Head	35 15	
1342.	Cap for Air Chamber, Top Outlet, 1¼ inch Discharge, for Well Force Pump	1 05	
1343.	Cap for Air Chamber, Top Outlet, 1½ inch Discharge, for Well Force Pump	1 05	
1344.	Hood over Valves, Bulldozer Power Pump, 3 inch Cylinder	5 60	
1345.	Cap, Lower, Brass, Tapped for 1¼ inch Cylinder, No. 324 Pump	2 80	
1346.	Shaft Support, No. 364 Bulldozer Working Head	5 60	
1347.	Oscillator for Casting No. 1348, Ashland Three-Way Pump	55	
1348.	Head, 6, 8 and 10 inch Stroke, Ashland Three-Way Pump	4 20	
1349.	Plunger, 3 inch Diameter, Fig. 958, Vertical Power Force Pump	2 15	
1350.	Foot Rest for 1¼ inch Cylinder, No. 324 Bucket Spray Pump	65	
1351.	Clamp for Foot Rest, No. 1350	30	
1352.	Cap and Piston Guide for 1¼ inch Cylinder, No. 324 Pump	30	
1353.	Side Arm, Right, Bulldozer Power Pump, 3 inch Cylinder	5 60	
1354.	Follower, Double Leather, 6 inch Diameter x ½ inch Long........Brass, $10 75; Iron,	4 90	
1355.	Valve Weight for Plunger, 3 inch Artesian Well Cylinder	1 70	
1356.	Cage for Plunger, Spring Valve, 3 inch Artesian Well Cylinder	2 80	
1357.	Cylinder with Base, 3 inch Century Low Down........Polished, $11 25; Brass Lined,	14 05	
1358.	Head for Cylinder with Yoke for Piston Guide, 3 inch Bulldozer	8 45	
1360.	Cage for Plunger, 4 inch Artesian Well Cylinder	4 90	
1361.	Valve Weight for Plunger, 4 inch Artesian Well Cylinder, Brass	2 80	
1362.	Valve Seat, Brass, 3½ inch Artesian Well Cylinder	2 80	
1363.	Cage for Plunger, 5 inch Artesian Well Cylinder, Brass	7 70	
1364.	Valve Weight, Brass, for Plunger, 5 inch Artesian Well Cylinder	3 50	
1365.	Valve Weight, Brass, for Plunger, 5 inch Artesian Well Cylinder (abandoned)	4 20	
1366.	Cage for Plunger, Brass, 3½ inch Artesian Well Cylinder	3 90	
1367.	Cage for Plunger, Brass, 6 inch, Artesian Well Cylinder	10 50	
1368.	Valve Weight for Plunger, Brass, 6 inch Artesian Well Cylinder	4 90	
1369.	Valve Seat, Brass, 3 inch, Artesian Well Cylinder	1 65	
1370.	Valve Plate on Check Valve for Coil Spring, 6 inch Artesian Well Cylinder (abandoned)	1 05	
1372.	Valve Weight for Plunger, Brass, 3½ inch Artesian Well Cylinder	2 15	
1373.	Head, Large Spout with Reservoir, for Ashland Lift Pump	3 50	
1374.	Collar for Suspending 3½ inch Brass Cylinder Siphon, No. 719 Stand	2 15	
1375.	Flange, 11¼ inch Diameter, Tapped 5 inch Pipe, Irrigation Cylinder, 8 inch	4 20	
1376.	Link for Oscillator to connect Long Wrought Iron Fulcrum to Base of No. 624 Stand	65	
1377.	Valve Seat Ring, Brass, 5 inch Artesian Well Cylinder	3 50	
1378.	Reservoir Head, 2½ inch Discharge, Tubular Well Lift Stand	3 50	
1379.	Head for House Lift and Force Pump, 3½ inch Brass Cylinder	4 90	
1380.	Cap, Lower, 3½ in. Brass Cylinder, Glass Seat, House Pump, with Wall Bracket Attachm't.	2 15,	$4 20
1381.	Cap, Lower, 6 inch Brass Cylinder, Outside Attachment, Artesian	8 45,	16 30
1382.	Head with Wall Bracket Attachment, House Force or Lift Pump, Reversible Fulcrum, 3½ inch Cylinder	4 90	
1383.	Cap, Lower, 5 inch Brass Cylinder, Outside Attachment, Brass Seat, Artesian	7 05,	13 60
1384.	Valve Seat, 5 inch Brass, Artesian, for Cap No. 1383	3 50	
1385.	Wing Guide for Valve No. 1383, 5 inch Iron Artesian	1 40	
1386.	Valve Weight, 6 inch Iron Artesian	1 40	
1387.	Valve Weight, 5 inch Iron Artesian, Cap No. 1383	1 10	
1388.	Valve Seat, Brass, 4 inch Cylinder, Outside Attachment, Artesian	2 80	
1389.	Wing Guide, Iron, for 4 inch Artesian	1 15	
1390.	Follower, 5 x ½ inch, for Double Leather..........Iron, $3 50; Brass,	7 05	
1391.	Wing Guide, Iron, for 6 inch Cap No. 1381, Artesian	1 70	
1392.	Valve Weight, Iron, for 4 inch Brass Cylinder, Artesian	95	
1393.	Cap, Lower, 4 inch Artesian, Outside Attachment	6 30,	11 45
1394.	Cap, Lower, 4½ inch Artesian, Outside, Tapped 2 inch	7 05,	12 50
1395.	Cap, Upper, 4 inch Artesian and Tapped 2 inch, Outside	4 20	
1396.	Cap, Upper, 4½ inch Artesian, Tapped 2 inch, Outside	4 90	
1397.	Valve Seat, Brass, 3½ inch Artesian	2 15	
1398.	Wing Guide, Iron, 3½ inch Artesian	1 05	
1399.	Valve Weight, Iron, 3½ inch Artesian	85	
1400.	Rod Coupling, Malleable, ⅜ inch Rod x ⅝ inch Rod..........per pound	30	
1401.	Cap, Lower, 2½ inch Brass Cylinder, Inside Attachment, Ashland Seat	1 40,	2 45
1402.	Cap, Lower, 3 inch Brass Cylinder, Inside Attachment, Ashland Seat	1 70,	2 80
1403.	Cap, Lower, 3½ inch Brass Cylinder, Inside Attachment, Ashland Seat	1 70,	3 50
1404.	Hose Connection for No. 1227 Jug	65	
1405.	Valve Weight, Iron, 4 x 4½ inch (Ashland), Tapped ⅝ inch	55	
1406.	Valve Seat, 4 and 4½ inch (Ashland), Brass	1 40	

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Rep. No.		Price.	Complete.
1407.	Wing Guide, 4 and 4½ inch (Ashland), Thread, ⅝ inch .... Brass	$1 10	
1408.	Valve Seat, Brass, 6 inch Artesian	4 20	
1409.	Wing Guide, 3½ and 3¾ inch (Ashland), Thread ½ inch .... Brass	85	
1411.	Wing Guide, 3¼ inch and less, Thread ½ inch (Ashland) .... Brass	65	
1413.	Lock Nut on Bulldozer Wrist Pin	55	
1414.	Poppet Valve, 3½ inch, for Vertical Power Pump	1 05	
1415.	Walking Beam for Combination Pumping Jack	4 90	
1416.	Valve Weight, Iron, 3¼ inch and less, Tap ½ inch (Ashland)	30	
1417.	Valve Weight, Iron, 3½ inch and 3¾ inch, Tap ½ inch (Ashland)	35	
1418.	House Pump Body, 3 inch Polished (Swivel Top)	4 20	
1419.	Yoke, 20 inch Stroke, Myers Working Head	8 45	
1420.	Spout Head, 3½ inch Pitcher, Tapped for Aerator	2 45	
1421.	Follower, 4½ x ½ inch long, Double Leather, Iron or Brass .... Iron, $2 80; Brass	5 60	
1422.	Cap, Lower, 4½ inch, Inside Attachment, Brass Body, Tapped 2½ inch, Artesian	7 05,	$12 50
1423.	Pitman, Improved Combination Pumping Jack	5 60	
1424.	Cap, Upper, 4½ inch, Inside Attachment (Artesian), Tapped 2½ inch	4 90	
1425.	Cap, Lower, 5 inch, Inside Attachment (Ashland)	8 50,	15 00
1426.	Cap, Upper, 5 inch, Inside Attachment (Artesian)	5 60	
1427.	House Pump Body, 3½ inch, Polished Cylinder (Swivel Top)	4 90	
1428.	Base for Siphon, 2 inch to 3½ inch Size	4 20	
1429.	Cap over Rear Valve, Bulldozer Pump, 4 inch	2 15	
1430.	Base, House Pump, 3 inch Iron Seat	2 15	
1431.	Coupling, Malleable, 1⅛ inch Rod for Bulldozer	1 70	
1432.	Coupling, Malleable, ⅞ inch, Rod for Bulldozer	1 70	
1433.	Hose Nipple, 1½ inch, all Brass	1 05	
1434.	Hose Nipple, 2 inch, all Brass	1 40	
1435.	Washer with Cone Expansion, Hydraulic Spray	30	
1436.	Air Chamber, Myers Century Spray Pump	7 05	
1438.	Cap, Lower, 3¼ inch, Inside Attachment, Brass Cylinder (Ashland)	1 70,	2 80
1439.	Body, Myers Century Spray Pump, 2½ or 3 inch, with Brass Lining	14 05	
1440.	Head with Yoke, for Myers Century Spray Pump	8 45	
1441.	Head, Plain, for Myers Century Spray Pump	2 80	
1442.	Hood over Valves for Century Spray Pump	4 20	
1443.	Spout Head Flanged, Tapped 2½ inch, Myers Tubular Well Stand	9 85	
1444.	Base, 3½ inch, House Pump, Iron Seat	2 45	
1445.	Head, Windmill, Flanged, for Myers Tubular Stand	6 30	
1447.	Box, one half, end of Crank Shaft, Ashland or Myers Combination Jack	3 50	
1448.	Main Frame, Ashland or Myers Combination Jack	14 05	
1449.	Follower, 2½ inches long x 5 inches, Single Leather (abandoned)	4 50	
1450.	Stand for Syphon, Bolted Base	8 45	
1451.	Base for Myers Tubular Stand	7 05	
1452.	Frame for Sure Grip Barn Door Hanger	1 05	
1453.	Base for Ashland Combination Jack	14 05	
1454.	Walking Beam for Ashland Combination Jack	4 90	
1455.	Oscillator Hinge at Base, Ashland or Myers Combination Jack	3 50	
1456.	Oscillator Hinge at Top to connect Walking Beam, Ashland or Myers Combination Jack	1 40	
1457.	Eye to connect Piston with Walking Beam, Ashland Combination Jack	1 40	
1458.	Bearing Cap, to connect Pitman to Crank Shaft on Ashland or Myers Combination Jack	3 10	
1459.	Bearing Cap, Pitman, Ashland or Myers Combination Jack	2 80	
1460.	Cap, Lower, 4 inch, for Brass Cylinder, Inside Attachment	3 15,	5 60
1461.	Valve, Wing Guide, 5 inch Brass Cylinder (Ashland) .... Brass,	1 40	
1462.	Valve Seat, 5 inch Brass (Ashland)	2 80	
1463.	Cap, Upper, 5 inch Brass Cylinder, Outside Attachment (Artesian)	5 60	
1464.	Frame, O. K. Stayon Barn Door Hanger	1 05	
1465.	Valve Weight, Beveled, Brass, Myers Century Spray	1 40	
1466.	Guide (Wing) for Myers Century Spray (abandoned)	65	
1467.	Valve Seat, Beveled (Brass), for Myers Century Spray	90	
1468.	Flange for 5 inch Pipe, 9¼ inch Diameter	3 50	
1569.	Flange for 6 inch Pipe, 14½ inch Diameter	9 90	
1470.	Flange for 5 inch Pipe, 14½ inch Diameter	9 90	
1471.	Flange for 3 inch Pipe, 14½ inch Diameter	9 90	
1472.	Wing Guide for 6 inch Brass Cylinder .... Brass,	2 15	
1473.	Ashland Valve Seat (Brass), 6 inch, Cap No. 831	3 50	
1474.	Bucket Plate, 4 inch Diameter, 1⅞ Hole	1 05	
1475.	Drop Valve Weight for 2¼ inch Cylinder	65	
1476.	Cap, Upper, 6 inch Brass Cylinder, Outside (Artesian)	7 70	
1477.	Piston Rod Guide, takes place Repair No. 147	40	
1478.	Flange for 5⅝ inch Casing, 14½ inches in Diameter	9 85	
1481.	Steel Crank Shaft, 6 inch Stroke, for Geared Pump Jack	8 40	
1482.	Eye for ⅝ Piston Rod, with Deep Thread	55	
1483.	Nut on 1¼ inch Plunger for Spray Pump, Screw Driver Head	20	
1487.	Flange, 9¼ inch Diameter, for 2½ inch Pipe	3 50	
1488.	Wing Guide, Artesian, 4 inch Cylinder	1 05	
1490.	Hose Nipple, Brass, ¾ inch, to connect Agitator; also used on Nos. 307-308 Pumps	55	
1491.	Male End for ½ inch Hose, Threaded ¼ inch Pipe Size	40	
1492.	Ashland Valve Seat (Brass), 1½ inch	1 05	
1493.	Ashland Valve Seat (Brass), 1¼ inch	65	
1494.	Drip Plug, ⅜ inch	20	
1495.	Air Chamber, for Century House and Factory Pump, for 1½ inch Pipe	5 60	
1496.	Cylinder Head with Yoke and Lugs for Distance Rods on Power Spray Pump	8 45	
1497.	Plunger Sleeve for 5 inch Hemp Plunger	4 00	
1498.	Plunger Cap for 5 inch Hemp Plunger	3 50	
1499.	Plunger Sleeve for 4 inch Hemp Plunger	4 20	
1500.	Plunger Cap for 4 inch Hemp Plunger	2 80	

Rep. No.		Price.	Complete.
1501.	Flange for 8 inch Pipe, 14 ½ inch Diameter	$9 85	
1502.	Cap, Lower, Ashland Valve for 3 inch Cylinder, B. L., Inside Attachment (abandoned)	1 70	
1503.	Base (movable), for Myers Combination Pumping Jack	11 25	
1504.	Flange for 6 inch Pipe, 9 ¼ inch Diameter	3 50	
1505.	Cylinder, 6 inches, B. L., with Base, for No. 363 Bulldozer Power Pump (abandoned)	112 50	
1506.	Yoke for 6 inch No. 363 Bulldozer Power Pump	28 10	
1507.	Walking Beam, Improved, for Combination Pumping Jack (Myers)	4 20	
1508.	Plunger Sleeve for 3 inch Hemp Plunger	3 50	
1509.	Plunger Cap for 3 inch Hemp Plunger	2 45	
1510.	Head, Cylinder, for Shaft Bearings, on No. 363 Pump	13 55	
1511.	Bearing Cap for Gear Shaft on No. 363 Pump	7 05	
1512.	Bearing Cap for Pulley Shaft on 363 Pump	7 05	
1513.	Hood over Valves on 6 inch No. 363 Bulldozer Power Pump	35 15	
1514.	Air Chamber on 6 inch No. 363 Bulldozer Power Pump	28 10	
1515.	Flange, 9 ¼ inch Diameter, Tapped 4 ½ inch Iron Pipe	3 50	
1516.	Side Arm (Left) on No. 363 Bulldozer Power Pump (abandoned)	14 05	
1517.	Valve Seat, Brass, for Rubber Check Valve, on 6 inch No. 363 Bulldozer Power Pump	2 80	
1518.	Lid on Oil Boxes 1511 and 1512	30	
1519.	Plunger Sleeve, 5 inch Hemp Plunger	3 50	
1520.	Plunger Cap, 5 inch Hemp Plunger	2 80	
1522.	Wing Guide for 3 ½ inch Artesian Well Cylinder	1 05	
1523.	Cock Spout Three-Way Casting, Malleable, for Tubular Well Stand	2 15	
1524.	Valve, Malleable, for Cock Spout, 1 ½ inch Discharge, Tubular Well Stand	65	
1525.	Spout to complete Cock Spout 1523	1 05	
1528.	Side Arm, Right, for 6 inch No. 363 Bulldozer Power Pump	14 00	
1529.	Cylinder Cap with Yoke and Lugs, for Distance Rod, 5 inch Low Down Power Pump	8 45	
1530.	Hood over Valves for 5 inch Century Power Pump	3 50	
1531.	Reservoir Head for 2 inch Cock Spout for Tubular Well Stand	3 80	
1532.	Cylinder for 5 inch New Century Pump, with Base .... Brass Lined,	14 05	
1533.	Plunger Sleeve for 6 inch Hemp Plunger	6 30	
1534.	Plunger Cap for 6 inch Hemp Plunger	4 90	
1535.	Cone Washer (cast) for Cock Spout	35	
1536.	Head (plain) for 5 inch Century Power Pump, 7 ½ inches in Diameter	3 50	
1537.	Cylinder Cap, Lower, for 2 ½ inch B. L. Cylinder, Inside Attachment (abandoned)	1 40	
1538.	Wing Guide for 3 inch Artesian Cylinder	1 05	
1539.	Valve Weight for 3 inch Artesian Cylinder	85	
1540.	Valve Cap, Lower, for 4 ½ inch Brass Cylinder, Inside Attachment, Ashland Seat	4 90	
1541.	Oil Box Gland, for 6 inch No. 363 Bulldozer Power Pump	4 20	
1542.	Oil Box Bushing, for 1 ½ inch Piston, for 6 inch No. 363 Bulldozer Power Pump	2 80	
1543.	Cylinder Head with Engine Slide Yoke and Stuffing Box for 5 inch Century Power Pump	9 85	
1544.	Combination Crosshead, Engine Slide and Bracket Attachment for H. P. and Low Down Pumps and Horse Power	3 50	
1545.	Pitman for Engine Head 1543	3 50	
1546.	Base with Side Outlet, on Working Head No. 278	5 60	
1547.	Crosshead, California Deep Well Working Head (abandoned)	3 50	
1548.	Stuffing Box Cap to bolt on California Deep Well Working Head	4 20	
1549.	Cylinder Base and Brass Valve Seat for Myers Coating Machine, attached to Base 1550.	3 50	
1550.	Base for Myers Coating Machine	3 50	
1551.	Air Chamber for Myers Coating Machine	7 60	
1552.	Pipe Nipple Flanged (Brass), for 1 ¼ inch Pipe, for Fig. 1232 Pump	1 10	
1553.	Pipe Nipple Flanged (Brass), for 1 ½ inch Pipe, for Fig. 1232 Pump	1 40	
1554.	Stayon Gate Hanger Frame	1 05	
1555.	Cap, Upper, for 2 ½ inch Cylinder, for Coating Machine, Perforated	1 10	
1556.	Base for Countershaft, Split Boxes	14 05	
1557.	Bearing Cap for 1556 Base	5 60	
1558.	Elbow, Double, for 1 ¼ inch Pipe on Gusher Pump	2 80	
1559.	Elbow, Close, 1 inch Discharge, for Gusher Pump	1 05	
1560.	Base, one half (Right), 1 ¼ inch Pipe, Gusher Pump	1 05	
1561.	Base, one half (Left), 1 ¼ inch Pipe, Gusher Pump	1 05	
1562.	Handle for Gusher Pump	1 40	
1563.	Head for Gusher Pump	1 40	
1564.	Yoke and Piston Coupling for Cylinders, Gusher Pump	65	
1565.	Strainer, 3 ½ inch, Gusher Pump	65	
1566.	Cap (Valve) for 3 ½ inch Cylinder, Gusher Pump	1 40	
1567.	Cap, Upper, Perforated, 3 ½ inch Cylinder, Gusher Pump	1 40	
1568.	Eye, Malleable, for Piston Rod, Adjustable, Gusher Pump	65	
1569.	Plunger Follower, 3 ½ inch, Gusher Pump (abandoned)	1 70	
1570.	Plunger Follower, 3 inch, Gusher Pump (abandoned)	1 40	
1571.	Valve Seat, inside of Plunger, 3 inch, Gusher Pump (abandoned)	1 40	
1572.	Valve Seat, inside of Plunger, 3 ½ inch, Gusher Pump (abandoned)	2 15	
1573.	Valve Cap for 3 inch Cylinder, Gusher Pump	1 40	
1574.	Cylinder Cap, Perforated, 3 inch, Gusher Pump	1 40	
1575.	Knob for Handle, Gusher Pump	35	
1576.	Strainer, 3 inch, Gusher Pump	65	
1577.	Spout for Tubular Well Stand, for Head No. 1531	1 40	
1578.	Handle for Winner Pump	1 40	
1579.	Bushing Seat for Vertical Three-Way, Deep Thread	1 05	
1580.	Shaft Support, Outer Bearing, on No. 363 Bulldozer	5 60	
1581.	Union Nut for Regulator Pump, Deep Thread, used instead of 251	40	
1584.	Cap, Lower, 6 inch, Outside Attachment, Brass Lined	8 45,	$14 75
1585.	Spindle for Water Cart, Right Side	1 40	
1586.	Spindle for Water Cart, Left Side	1 40	
1587.	Base, with Hand Hole, on Stand No. 1329, Myers Well Force Pump	5 60	
1588.	Base Plate for No. 1587	1 40	

Rep. No.		Price.	Complete.
1589.	Geared Pump Stand for Myers Back Geared Working Head	$9 85	
1590.	Ratchet Head for Double Acting Force Pump	2 80	
1591.	Handle Segment.	1 70	
1593.	Air Chamber and Fulcrum for Fig. 1108	4 20	
1594.	Rack for Cog Gear Force Pumps	1 05	
1595.	Wheel Guide for Ratchet Piston	50	
1596.	Projection for Air Chamber and Cylinder for O. K. Spray Pump (abandoned)	11 25	
1597.	Flange, 2½ inch Pipe Thread, for O. K. Spray Pump	1 40	
1598.	Air Chamber Head with Two Outlets, for O. K. Spray Pump	4 20	
1599.	Piston Rod Connection to Handle on O. K. Spray Pump	65	
1600.	Gland for Plunger on O. K. Spray Pump (abandoned)	4 90	
1601.	Base for Universal Pumping Jack (abandoned)	7 00	
1602.	Adjustable Base and Clamp, Left, on O. K. Spray Pump	2 15	
1603.	Adjustable Base and Clamp, Right, on O. K. Spray Pump	2 15	
1604.	Clamp Extension to 1602 and 1603	1 05	
1605.	Crank Plate, Adjustable, 5, 7½ and 10 inch Stroke (abandoned)	2 15	
1606.	Wrist, Malleable, Side Arm Extension	2 15	
1607.	Weight on End of Ratchet Pump Handle, for 1 inch Pipe	65	
1609.	Pitman Crank, (5, 7½ and 10 inch Stroke) for Myers Back Geared Working Head	1 40	
1609½.	Bushing for Wrist Pin on No. 357 Working Head	1 40	
1610.	Air Chamber for Myers Back Geared Working Head, Fig. 1118	9 85	
1611.	Flange, 9¾ inch Diameter, Tapped for 4½ inch Suction Pipe, for No. 359 Working Head	4 20	
1612.	Fulcrum Head for Stands (Ratchet)	3 50	
1613.	Cap, Upper, 2¾ inch Brass Cylinder, (Inside) Tapped for 1½ inch Pipe	1 05	
1614.	Cap, Lower, 2¾ inch Brass Cylinder, (Inside) Ashland Seat, Tapped 1½ inch Pipe	1 40	
1615.	Base for Ratchet Head Double Acting Force Pump	4 20	
1616.	Clamp for 2½ inch Pipe for Agitator on O. K. Spray Pump	1 05	
1617.	Pitman Arm, for Universal Pump Jack	2 15	
1618.	Cap, Lower, 6 inch Brass Cylinder, (Inside) Ashland Seat, Tapped 3 inch Pipe	8 45	
1619.	Piston Rod Guide for ½ inch Rod on Air Chamber, No. 1593	40	
1620.	Rack for 1 inch Windmill Bar on Ratchet Head, No. 1612	1 05	
1621.	Cap, Upper, 2½ inch Brass Cylinder, (Outside) Tapped for 1½ inch Pipe	1 05	
1622.	Cap, Lower, 2½ inch Brass Cylinder, (Outside) Ashland Seat, Tapped for 1½ inch Pipe	1 40	
1623.	Cap, Upper, 3 inch Brass Cylinder, (Outside) Tapped for 1½ inch Pipe	1 40	
1624.	Cap, Lower, 3 inch Brass Cylinder, (Outside) Ashland Seat, Tapped for 1½ inch Pipe	1 70	
1625.	Cap, Upper, 3½ inch Brass Cylinder, (Outside) Tapped for 2 inch Pipe	1 40	
1626.	Cap, Lower, 3½ inch Brass Cylinder, (Outside) Ashland Seat, Tapped for 2 inch Pipe	1 70	
1627.	Strainer for O. K. Spray Pump (abandoned)	4 20,	$6 30
1628.	Gland, Brass, 2½ inch for O. K. Spray Pump	4 90	
1629.	Plug and Eye for Plunger for O. K. Spray Pump	1 70	
1630.	Air Chamber, (Marine) 2 inch Discharge for Pumps Nos. 273, 273½, 454, 464 and 474	6 30	
1631.	Agitator, Mechanical, Right Side, for O. K. Spray Pump	65	
1632.	Agitator, Mechanical, Left Side, for O. K. Spray Pump	65	
1633.	Clamp for Agitator, one half, with Ring, for O. K. Spray Pump	55	
1634.	Clamp for Agitator, one half, for O. K. Spray Pump	35	
1635.	Wood Rod Connection for ½ x 1 inch Flat Windmill Bar, Outside	1 05	
1636.	Cap, Lower, 5 inch Brass Cylinder, (Inside) Ashland Seat, Tapped for 2½ inch Pipe	6 30	
1637.	End Bearing Cap, (Side Opening) for Crank Shaft on Fig. 958 Pump	3 50	
1638.	Cap, Upper, 2½ inch, Three Bolt Brass Cylinder, Tapped for 1¼ inch Pipe	1 05	
1639.	Cap, Lower, 2½ inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 1¼ inch Pipe	1 70,	2 80
1640.	Cap, Upper, 2¾ inch, Three Bolt Brass Cylinder, Tapped for 1¼ inch Pipe	1 05	
1641.	Cap, Lower, 2¾ inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 1¼ inch Pipe	1 70,	2 80
1642.	Cap, Upper, 3 inch, Three Bolt Brass Cylinder, Tapped for 1½ inch Pipe	1 40	
1643.	Cap, Lower, 3 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 1½ inch Pipe	2 15,	3 15
1644.	Cap, Upper, 3¼ inch, Three Bolt Brass Cylinder, Tapped for 1½ inch Pipe	1 40	
1645.	Cap, Lower, 3¼ inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 1½ inch Pipe	2 15,	3 50
1646.	Cap, Upper, 3½ inch, Three Bolt Brass Cylinder, Tapped for 2 inch Pipe	1 40	
1647.	Cap, Lower, 3½ inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 2 inch Pipe	2 15,	4 20
1648.	Cap, Upper, 4 inch, Three Bolt Brass Cylinder, Tapped for 2 inch Pipe	2 15	
1649.	Cap, Lower, 4 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 2 inch Pipe	3 15,	5 60
1650.	Cap, Upper, 4½ inch, Three Bolt Brass Cylinder, Tapped for 2 inch Pipe	2 80	
1651.	Cap, Lower, 4½ inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 2 inch Pipe	4 90,	8 10
1652.	Cap, Upper, 5 inch, Three Bolt Brass Cylinder, Tapped for 2½ inch Pipe	3 50	
1653.	Cap, Lower 5 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 2½ inch Pipe	6 30,	10 90
1654.	Cap, Upper, 6 inch, Three Bolt Brass Cylinder, Tapped for 3 inch Pipe	4 20	
1655.	Cap, Lower, 6 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 3 inch Pipe	8 45,	13 70
1656.	Cap, Upper, 7 inch, Three Bolt Brass Cylinder, Tapped for 4 inch Pipe	6 30	
1657.	Cap, Lower, 7 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 4 inch Pipe	11 25,	18 90
1658.	Follower, 7 inch Diameter x ½ inch long, for F Plunger, Double Leather. Iron, $6 30; Brass.	12 75	
1659.	7 inch Valve Seat, (Brass) Ashland	4 90	
1660.	7 inch Drop Valve, (Brass) for Plunger	4 90	
1661.	Cap, Lower, 2½ inch, Brass Cylinder, (Inside) Ashland Seat, Tapped for 1½ inch Pipe	1 40	
1662.	Cap, Upper, 2½ inch, Brass Cylinder, (Inside) Tapped for 1½ inch Pipe	1 05	
1664.	Cock Spout, to bolt on Spout Head No. 1671	2 15,	3 50
1665.	Stuffing Box Bushing, for Repair 1664	1 05	
1666.	Valve for Cock Spout, No. 1664	65	
1667.	Valve Stem, Brass, for Repair No. 1664	1 40	
1668.	Hand Wheel for Stem No. 1667	35	
1669.	Stuffing Box Nut, Brass, for Cock Spout No. 1664	65	
1670.	Check Valve Weight, Tilting, for 7 inch Seat, No. 1659	65	
1671.	Reservoir Head, with 1½ inch Outlet, for Bolted Cock Spout	3 50	
1672.	Base, one half, Left Side, for O. K. Spray Pump	2 15	
1673.	Base, one half, Right Side, for O. K. Spray Pump	2 15	

Rep. No.		Price.	Complete.
1674.	Fulcrum for Repairs Nos. 461, 689, 705 and 1043	$0 65	
1675.	Reducer, Cast, Threaded 2 inch and Tapped 1¼ and 1½ inch	1 40	
1676.	Flange, 7½ inch Diameter, Tapped for 2½ inch Pipe for No. 358 Working Head	2 80	
1677.	Cap, Upper, 3 inch, Brass Cylinder, (Inside) Tapped for 1½ inch Pipe	1 40	
1678.	Cap, Lower, 3 inch, Brass Cylinder, (Inside) Ashland Seat, Tapped for 1½ inch Pipe	1 75	
1679.	Cap, Upper, 3¼ inch, Brass Cylinder, (Inside) Tapped for 1½ inch Pipe	1 40	
1680.	Cap, Lower 3¼ inch Brass Cylinder, (Inside) Ashland Seat, Tapped for 1½ inch Pipe	1 75,	$3 50
1681.	Cap, Upper, 3½ inch Brass Cylinder, (Inside) Tapped for 2 inch Pipe	1 40	
1682.	Cap, Lower, 3½ inch Brass Cylinder, (Inside) Ashland Seat, Tapped for 2 inch Pipe	1 70	
1688.	Frame, Malleable, for Tandem Door Hanger	65	
1689.	Wheel for Tandem Door Hanger	35	
1690.	Ratchet Handle Segment for ¾ inch Pipe	1 70	
1691.	Handle Weight for Ratchet Pump, for ¾ inch Pipe	65	
1692.	Malleable Thumb Nut, Adjustable, for Tandem Door Hanger (abandoned)	40	
1693.	Malleable Elevating Bolt, with Hinge Connection, for Clevis for Tandem Door Hanger (abandoned).	50	
1694.	Handle Casting for Gusher Pump	1 40	
1695.	Cap, Upper, 3 inch Artesian Cylinder, (Outside) Tapped for 1½ inch Pipe	2 45	
1696.	Cap, Lower, 4½ inch Brass Lined Cylinder, (Outside) Ashland Seat, Tapped for 2½ inch Pipe.	4 90	
1697.	Cap, Lower, 3 inch Artesian Cylinder, (Outside)	4 90,	8 70
1698.	Cap, Lower, 4½ inch Brass Cylinder, (Inside) Ashland Seat, Tapped for 2½ inch Pipe	4 90,	8 45
1699.	Base for Universal Pumping Jack	7 05	
1700.	6 inch Valve Weight, for Fig. 1142 Cylinder	55	
1701.	5 inch Valve Weight, for Fig. 1142 Cylinder	40	
1702.	4 inch Valve Weight, for Fig. 1142 Cylinder	35	
1703.	6 inch Plunger Sleeve for Hemp Packing, on Nos. 346 and 352 Pumps	4 90	
1704.	6 inch Plunger Cap, for Hemp Packing, on Nos. 346 and 352 Pumps	2 80	
1705.	Cylinder Base, for No. 346 Pump	84 35	
1706.	Hood over Valves, on Nos. 346 and 352 Pumps	28 00	
1707.	Cylinder Head with Engine Slide and Stuffing Box, for Nos. 346 and 352 Pumps	21 00	
1708.	Head, Plain, for No. 346 Pump	7 00	
1709.	Crosshead for Pitman, No. 1710 on No. 346 Pump	5 60	
1710.	Stub Pitman Connection, for No. 346 Pump	4 90	
1711.	Valve Seat, Brass, for Nos. 346 and 352 Pumps	3 50	
1712.	Air Chamber, Flanged Outlet, for Nos. 346 and 352 Pumps	21 10	
1713.	Bearing Cap with Gear Shield for No. 352 Pumps	11 25	
1714.	Head, Cylinder, for Shaft Bearing, on No. 352 Pump	21 10	
1715.	Bearing Cap for Gear Shaft on No. 352 Pump	7 05	
1716.	Cylinder and Base, for No. 352 Pump	91 40	
1717.	Combination Base and Cylinder, or Projection, Ball Valve, for O. K. Spray Pump	11 25	
1718.	Upper Disc, Brass, for Hemp Plunger on No. 305 Pump	1 70	
1719.	Lower Disc, Brass, for Hemp Plunger on No. 305 Pump	1 40	
1721.	Brass Seat, Ball Valve, Inside Air Chamber (Threaded Outside 1¼ in. for O. K. Spray Pump).	1 40	
1722.	Malleable Thumb Nut, Adjustable, for Tandem Door Hanger	40	
1723.	Malleable Elevating Bolt, with Hinge Connection for Clevis for Tandem Barn Door Hanger	50	
1724.	Malleable Clevis to go with Rep. 1723, for Tandem Door Hanger	35	
1725.	Brass Nut, Square, for Cock Spout	05	
1726.	Strainer, with Ball Valve, for O. K. Spray Pump	4 20,	6 30
1727.	Follower, 3½ inch Diameter x ½ inch long, for F Plunger, Double Leather. Iron, $1 25; Brass	3 50	
1728.	Pulley, 18 inch Diameter x 4 inch Face	6 20	
1729.	Pulley, 20 inch Diameter x 4 inch Face	7 00	
1730.	Pulley, 24 inch Diameter x 4 inch Face	8 45	
1731.	Gear, 72 Teeth, 4 Pitch, for No. 352 Pump	21 10	
1732.	Pinion, 12 Teeth, 4 Pitch, for No. 352 Pump	7 00	
1733.	Crosshead for No. 352 Pump	11 25	
1734.	Side Arm, Right Side, for No. 352 Pump	8 45	
1735.	Side Arm, Left Side, for No. 352 Pump	8 45	
1736.	Wrist Pin Bushing, 2½ inch Diameter, for Nos. 352 and 364 Pumps	3 50	
1737	2½ inch Upper Disc, Brass, for Hemp Plunger, for No. 334 Pump	2 15	
1738.	2½ inch Lower Disc, Brass, for Hemp Plunger, for No. 334 Pump	2 45	
1739.	Spout, Plain, to bolt on Head No. 1671	1 40	
1743.	Cylinder Head with Engine Slide and Stuffing Nut, for 3 inch Century Pump	9 85	
1744.	Cap, Lower, 3 inch Brass Cylinder (Inside), Glass Seat, Tapped for 1½ inch Pipe	1 75	
1745.	Follower, 4 inch Diameter x ½ inch long, for F Plunger, Double Leather. Iron, $2 15; Brass.	4 20	
1746.	Follower, 3 inch Diameter x ½ inch long, for F Plunger, Double Leather. Iron, $1 00; Brass.	2 80	
1747.	Follower, 2½ inch Diameter x ½ inch long, for F Plunger, Double Leather. Iron, $0 85; Brass	2 10	
1749.	Agitator Clamp, Right Side, for No. 305 Pump	35	
1750.	Agitator Clamp, Left Side, for No. 305 Pump	35	
1751.	Paddle Lever, Right Side, for Agitator on No. 305 Pump (abandoned)	65	
1752.	Paddle Lever, Left Side, for Agitator on No. 305 Pump (abandoned)	65	
1754.	Side Arm, Right, for Geared Century Spray Pump	4 20	
1759.	Side Arm, Left, for Geared Century Spray Pump	4 20	
1763.	Clamp, with Projection, for Piston Rod Agitator, on No. 305 Pump	30	
1764.	Clamp, Plain, for Piston Rod Agitator, on No. 305 Pump	20	
1765.	3½ inch Valve Weight, Hinge	20	
1766.	Base for "Advance" Well Force Pump, Brass Seat	2 80	
1767.	Air Chamber for "Advance" Well Force Pump	6 30	

Rep. No.		Price.	Complete.
1768.	Handle, Dakota, for Gusher Pump (abandoned)	$1 40	
1769.	Head, Cylinder, for Shaft Bearings on Nos. 342 and 371 Pumps	8 45	
1770.	Cylinder and Base, Brass Lined, for Nos. 342 and 371 Pumps	35 15	
1771.	Engine Slide Crosshead for Nos. 342 and 371 Pumps	3 50	
1772.	Cap, Upper, 2 inch Three Bolt Brass Cylinders	1 05	
1773.	Cap, Lower, 2 inch Three Bolt Brass Cylinders	1 70	
1774.	Base, with Hand Hole for "Advance" Well Force Pumps	5 60	
1775.	Crank, 1½ inch Shaft, for Nos. 342 and 371 Pumps	3 50	
1778.	2½ inch Plunger Sleeve for Hemp Plunger on Century Spray Pump	3 50	
1779.	2½ inch Plunger Cap for Hemp Plunger on Century Spray Pump	2 45	
1780.	2 inch Cylinder Head with Base for No. R279 Pump (abandoned)	2 15	
1781.	2 inch Cylinder and Fulcrum Head for No. R279 Pump (abandoned)	4 20	
1782.	Rack for Handle Segment for Nos. R279, R309 Pumps (abandoned)	1 05	
1783.	Handle Segment for Nos. R279, R309 Pumps	1 70	
1784.	Cap over Ball Valves for Nos. R279, R309 Pumps	85	
1785.	Air Chamber for No. R279 Pump	2 80	
1786.	Piston Guide, 1¼ inch and 1½ inch Pipe for Cyclone Pump	30	
1787.	Air Chamber for Nos. R309, 313 Pumps	3 50	
1788.	Coupling Cap, Malleable, 2 inch Pipe with Brass Seat, for Fig. 1203 Cylinder	2 80	
1789.	Coupling Cap, Malleable, 2½ inch Pipe with Brass Seat for Fig. 1203 Cylinder	3 50	
1790.	Fulcrum Head, Plain, for Stand No. 1329	2 80	
1791.	Coupling Cap, Malleable, 3 inch Pipe, Brass Seat, for Fig. 1203 Cylinder	4 90	
1792.	Bolt, Malleable, for O. K. Adjustable Door Hanger	50	
1793.	Flange, 6 inch Diameter, Tapped for 2 inch Pipe	1 40	
1794.	Frame for Sure Grip Adjustable Door Hanger	1 40	
1795.	Cap, Lower, 3 inch, Brass Lined Cylinder (Outside), Glass Seat, Tapped for 1½ inch Pipe	1 70	
1796.	Cap, Lower, 2½ inch, Brass Cylinder (Inside) Glass Seat, Tapped for 2 inch Pipe	1 70	
1797.	Cap, Lower, 2½ inch, Brass Lined Cylinder (Outside), Glass Seat, Tapped 2 inch Pipe	1 40	
1798.	Cap, Upper, 2½ inch, Brass Lined Cylinder (Outside), Tapped 2 inch Pipe	1 05	
1799.	Crosshead for No. 313 Pump	2 80	
1800.	Head (Ratchet) Tapped for Stuffing Box for Ashland Ratchet Tank Pump	4 20	
1801.	Rack for Ashland Ratchet Tank Pump	1 05	
1802.	Handle Socket (Ratchet) for Ashland and Century Ratchet Tank Pump	1 70	
1803.	Head, Cylinder, Tapped for Stuffing Box and with ⅝ inch Guide Rods for Junior Spray Pump	4 20	
1804.	Stand for Siphon Power Pump	9 85	
1805.	Cap, Upper, Tapped for 13/16 inch Guide Rods, for Siphon Power Pump	4 20	
1806.	Crosshead for Siphon Power Pump	5 60	
1807.	Eccentric Side Arm (Right and Left) for Siphon Power Pump	6 30	
1808.	Eccentric Wheel for Side Arm for Siphon Power Pump	4 90	
1809.	Eccentric Wheel Flange for Repair No. 1808 for Siphon Power Pump	1 40	
1810.	Frame for Sure Grip Tandem Barn Door Hanger	1 40	
1811.	¾ inch Hose Nipple (Brass), Tapped for ¼ inch Agitator Pipe (long)	55	
1813.	Shell, 3 inch, Brass Lined, for Hydro-Pneumatic Cylinder (open well)	11 25	
1814.	Shell, 3½ inch, Brass Lined, for Hydro-Pneumatic Cylinder (open well)	11 90	
1815.	Cylinder Body, with Seats, for 3 inch Century Low Down Pump	15 25	
1816.	Cap, Upper, 3½ inch (Inside), for Hydro-Pneumatic Cylinder	1 40	
1817.	Head, Cylinder (Plain), for 3 inch Century Low Down Pump	2 15	
1818.	Head, Cylinder (Ratchet), for 3 inch Century Low Down Pump	4 20	
1819.	Follower with Cage for 3½ inch Plunger on Hydro-Pneumatic Cylinder	1 20	
1820.	Cap over Valves on Cylinder, for 3 inch Century Low Down Pump	1 10	
1821.	Plunger Cap (Iron), Outside, for Hemp Plunger on 3 inch Century Low Down Pump	2 45	
1822.	Plunger Sleeve (Iron), Inside, for Hemp Plunger on 3 inch Century Low Down Pump	3 50	
1823.	Air Chamber, for 3 inch Century Low Down Pump	3 50	
1824.	Coupling Cap, Lower, for 4 inch Perfect Artesian Cylinder, Tapped for 4 inch Pipe	7 70	
1825.	Handle Socket for 1 inch Pipe for Century Low Down Pump	1 70	
1826.	Head for Hydro-Pneumatic Cylinder on 3 inch Century Low Down Pump	3 95	
1827.	Head, Cylinder, Tapped for Stuffing Box, for 3 inch Century Low Down Pump	3 50	
1828.	Brass Y (1 x ¾ x ¾ inch) for Discharge on Century Spray Pumps	1 40	
1831.	Head, Cylinder, Tapped for Stuffing Box, for Repair No. 1532	3 50	
1834.	Tee Handle Grip for 1 inch Pipe	90	
1837.	Base for 3 inch Century Low Down Pump	1 40	
1846.	Base for Cog Gear Hydraulic Spray Pump	5 60	
1847.	Pitman Yoke for Cog Gear Hydraulic Spray Pump	1 70	
1861.	Crosshead for 3 inch Pitman Low Down Pump (abandoned)	2 80	
1862.	Plunger Sleeve, Brass (Cup Shaped), for 2 inch Hemp Plunger on Nos. R309, 313 Pumps	1 70	
1863.	Plunger Cap, Brass, for 2 inch Hemp Plunger on Nos. R309, 313 Pumps	1 40	
1864.	Cap, 3 inch, Tapped for Piston Rod Guide, for Air Cylinder on Bulldozer Pump	2 80	
1865.	Plunger Plate for 3 inch Plunger in Air Cylinder on Bulldozer Pump	50	
1866.	Plunger Plate (Faced) for 3 inch Plunger in Air Cylinder on Bulldozer Pump	1 40	
1867.	Air Valve Cap for Air Cylinder on Nos. 353, 362, 504 Pumps	1 75	
1871.	Cylinder Body for 5 inch Cog Gear and Century Low Down Tank Pump, Pol., $8 45; B. L.	12 65	
1872.	Base for 5 inch Cog Gear and Century Low Down Tank Pump	1 40	
1873.	Hose Nipple (Suction) for Century Low Down Pump (abandoned)	1 05	
1875.	Flange for Air Chamber, Tapped for Check Valve for Century Spray Pump	2 15	
1877.	Head, Cyinder, with Guide Rods for 3 inch Century Spray Pump (abandoned)	5 60	
1878.	Base for 3 inch Century Spray Pump	2 15	
1879.	Rack for Century Low Down Pumps	1 05	
1880.	Roller for Rack No. 1879	65	
1891.	Cap, Lower, 5 inch Brass Cylinder (Inside), Iron Seat, Tapped for 3 inch Pipe	6 30	
1893.	Cap, Upper, 3½ inch Artesian Cylinder (Outside), Tapped for 2 inch Pipe	3 50	
1895.	Cap, Upper, 4 inch Artesian Cylinder (Outside), Tapped for 3 inch Pipe	4 20	

Rep. No.		Price.	Complete.
1898.	Cylinder Body, (Heavy) for 3 inch Century Pump	$1 40	
1899.	Cap, Upper, 4 inch Artesian Cylinder (Outside), Tapped for 2½ inch Pipe	4 20	
1903.	Cap, Upper, 5 inch Brass Cylinder (Inside), Tapped for 3 inch Pipe	3 50	
1905.	Cap, Lower, 3 inch Artesian Cylinder (Outside), Tapped for 2 inch Pipe	4 90	
1907.	Cap, Lower, 5 inch Artesian Cylinder (Inside), Tapped for 3 inch Pipe	8 45	
1908.	Cap, Upper, 3 inch Artesian Cylinder (Outside), Tapped for 2 inch Pipe	2 80	
1909.	Plunger Valve, Brass (Cone Shaped), for 3½ inch Perfect Artesian Well Cylinder	3 05	
1910.	Cap, Lower, 5 inch Brass Lined Cylinder (Outside), Brass Seat, Tapped for 4 inch Pipe	7 05	
1911.	Cap, Lower, 6 inch Brass Cylinder (Outside), Brass Seat, Tapped for 4 inch Pipe	8 45	
1913	Valve Seat, Brass, for 5 inch Perfect Artesian Well Cylinder	3 50	
1914.	Head (Cylinder), fitted for Stuffing Box and Oscilator for Century Low Down Tank Pump	2 80	
1915.	Head (Cylinder), Plain for Century Low Down Tank Pump	2 10	
1916.	Street Elbow, 1¼ x ¾ inch (Cast), for Century Spray Pump	35	
1917.	Brass Hose Nipple, 1¼ x 1 inch (Reducer), for Century Spray Pump	85	
1918.	Stuffing Nut, Brass, for 1⅛ inch Piston Rod on Nos. 346 and 352 Pumps	2 80	
1919.	Street Elbow, 1 x ¾ inch (Cast)	35	
1920.	Wing Guide for Check Valve on 3½ inch Perfect Artesian Well Cylinder	1 40	
1921.	Valve Seat, Brass, for 6 inch Perfect Artesian Well Cylinder	4 90	
1923.	Wing Guide for Check Valve, for 2¼ inch Perfect Artesian Well Cylinder	85	
1924.	Valve Seat, Brass, for 4½ inch Perfect Artesian Well Cylinder	2 45	
1925.	Cap, 3 inch, for Hydro-Pneumatic Cylinder, Tapped for 2 inch Pipe	1 40	
1926.	Flange, 14½ inch Diameter, Tapped for 7 inch O. D. Casing	9 85	
1927.	Flange, 14½ inch Diameter, Tapped for 6¼ inch O. D. Casing	9 85	
1928.	Flange, 14½ inch Diameter, Tapped for 5½ inch Pipe	9 85	
1929.	Flange, 14½ inch Diameter, Tapped for 5 3/16 inch Casing	9 85	
1930.	Flange, 14½ inch Diameter, Tapped for 5 inch O. D. Casing	9 85	
1931.	Flange, 14 inch Diameter, Tapped for 4 inch Casing	9 85	
1932.	Flange, 9¼ inch Diameter, Tapped for 3½ inch Pipe	4 20	
1933	Bracket (Left) for Pulleys on No. 382 Working Head	35 15	
1934.	Bracket (Right) for Pulleys on No. 382 Working Head	35 15	
1935.	Stuffing Box Cap or Head for No. 382 Working Head	35 15	
1936.	Pipe Collar Flange, Tapped for 8 inch Pipe, for No. 382 Working Head	21 00	
1937.	Cap Nut for Set Screw on Cap No. 1935, on No. 382 Working Head	2 15	
1938.	Bearing Cap with Gear Shield (Left) for 2 inch Shaft on No. 382 Working Head	8 45	
1939.	Bearing Cap for 2½ inch Shaft on No. 382 Working Head	7 05	
1940.	Body for No. 382 Working Head	175 80	
1941.	Stuffing Box Gland for No. 382 Working Head	4 90	
1942.	Crosshead (Back) with Side Arm Bearings for No. 382 Working Head	28 00	
1943.	Crosshead (Front) for No. 382 Working Head	14 05	
1944.	Side Arm (Right or Left) for No. 382 Working Head	21 10	
1945.	Washer, or Wrist Pin Cap for No. 382 Working Head	2 15	
1946.	Bearing Cap with Gear Shield (Right) for 2 inch Shaft for No. 382 Working Head	8 45	
1947.	Gear, 90 Teeth, 3 Pitch, for No. 382 Working Head	63 30	
1948.	Pinion, 15 Teeth, 3 Pitch, for No. 382 Working Head	11 25	
1949.	Pulley, 30 inch Diameter x 6 inch Face. (In ordering, state whether Tight or Loose Pulley is desired)	14 75	
1950.	Double Elbow with 7½ inch Flange, Tapped 2 1/16 inch, for Set Length Power Working Head	4 90	
1951.	Valve Seat, Brass, for Cylinder on 2½ inch Century Spray Pump	1 05	
1952.	Head, Cylinder (Ratchet), for (Blank) 3 inch Century Low Down Pump	3 95	
1953.	Base for (Blank) 3 inch Century Low Down Pump	1 40	
1954.	Air Chamber for (Blank) 3 inch Century Low Down Pump	3 50	
1955.	Drop Valve, Wing (Brass), for 2½ inch Spray and 3 inch Century Low Down Pump	1 05	
1956.	Drop Valve, Wing (Brass), for 2 inch Century Spray Pump	65	
1957.	Cyinder (Brass Lined), 3 inch and 3½ inch, for Vertical Hydro-Pneumatic Pump	11 25	
1958.	Cap, Lower, 3 inch (Inside), Brass Cylinder, Ashland Seat, Tapped 2 inch Pipe	1 75	
1959.	Cylinder Shell, Brass Lined, for 3½ inch Hydro-Pneumatic Cylinder, Tapped for 3½ inch pipe and 20 inch Stroke	23 15	
1960.	Air Chamber with Side Outlet (Special) for 3 inch Century Low Down Pump	4 20	
1961.	Hose Nipple (Suction), 2¼ inch Hose, Enlarged End, for New Low Down Tank Pump	1 05	
1962.	Head, Cylinder (Hydro-Pneumatic), for (Blank) 3 inch Century Low Down Pump	3 95	
1963.	Head, Cylinder (Ratchet), for New Cog Gear Low Down Tank Pump	3 35	
1964.	Flange, 9¾ inch Diameter, Tapped for 3½ inch Iron Pipe, for No. 359 Working Head	4 20	
1965.	Flange, 9 inch Diameter, Tapped for 4½ inch Iron Pipe, for No. 359 Working Head	4 20	
1966.	Head, Cylinder, Tapped for Guide Rods, for 2 inch Junior Spray Pitman Pump (abandoned)	3 50	
1967.	Head, Cylinder, Plain, for 2 inch Hercules Low Down Pump (abandoned)	2 15	
1968.	Flange, 10¾ inch Diameter, Tapped for 6 inch Iron Pipe, for Bulldozer Working Head, 24 inch Stroke.	9 85	
1969.	Fulcrum or Head for Myers-Chase Lift and Single Acting Force Pump	4 20	
1970.	Rack for Nos. R451 and R452	1 05	
1971.	Handle, Ratchet for Pumps, Figs. 1530, 1531	2 80	
1972.	Cylinder and Base for Nos. 343 and 501 Power Pumps	28 00	
1973.	Head, Cylinder, for Gears on Nos. 343, 501, 502 Power Pumps	9 85	
1974.	Head, Cylinder, Tapped for Guide Rods, for No. 502 Power Pump	8 45	
1975.	Bearing Cap for 1¼ inch Gear Shaft on Nos. 343, 501, 502 Power Pumps	4 20	
1976.	Bearing Cap with Gear Shield for Pulley Shaft on Nos. 343, 501, 502 Power Pumps	6 30	
1977.	Crosshead for Nos. 343, 501, 502 Power Pumps (abandoned)	5 60	
1978.	Side Arm (Right and Left) for Nos. 343, 501, 502 Power Pumps	4 20	
1979.	Bearing Cap between Gear and Pulleys, on Nos. 343, 501, 502 Power Pumps	1 40	
1980.	Air Chamber with 1¼ inch Discharge, for Nos. 343, 440, R441, 501 and 502 Power Pumps.	5 60	
1981.	Washer or Wrist Pin Cap for Nos. 343, 378, 379, 387, R460, 501, 502 Power Pumps	1 40	

Rep. No.		Price.	Complete.
1982.	Cap, Tapped for Guide Rods, for Air Cylinder on Nos. 343, 501, 502 Power Pumps...	$4 90	
1983.	Cap, Tapped for Air Valve, for Air Cylinder on Nos. 500, 501, 502 Power Pumps (abandoned).	1 40	
1984.	Gland for Nos. 343, 501, 502 Power Pumps........	1 70	
1985.	Head, Ratchet, for Cog Gear Gusher Pump........	4 20	
1986.	Handle, Ratchet, for Cog Gear Gusher Pump........	3 50	
1987.	Hose Reducer, Brass, ¾ inch Hose to ¼ inch Pipe........	35	
1988.	Head, Ratchet, for all Double Acting Chase Ratchet Pumps........	2 80	
1989.	Head, Cylinder (Ratchet), for 2 inch Cog Gear Spray and Hercules Pumps (abandoned)	4 20	
1990.	Head, Cylinder (Ratchet), for Vertical Hydro-Pneumatic Pump........	7 00	
1991.	Air Chamber for Nos. R309, 313 Pumps........	6 30	
1992.	Head, Cylinder, Pain, for 2½ inch Century Spray Pump (abandoned)........	4 20	
1993.	Valve Seat, Brass, for O. K. Spray Pump........	2 15	
1994.	Cap for Power Spray Nozzle........	75	
1995.	Body for Power Spray Nozzle........	1 40	
1996.	Head, Cylinder, Tapped for Guide Rods, for Nos. 343, 501 Pumps........	11 25	
1997.	Cylinder Body for 2½ inch Century Spray Pump (abandoned)........	12 65	
1998.	Plunger Cap (Iron), Outside, for Hemp Plunger on Nos. R438, 439 Pumps........	2 15	
1999.	Plunger Sleeve (Iron), Inside, for Hemp Plunger on Nos. R438, 439 Pumps........	3 15	
2000.	Cylinder and Base for No. 504 Power Pump........	28 10	
2001.	Head, Cylinder, Tapped for Guide Rods, for No. 504 Power Pump........	9 85	
2002.	Gland for No. 359 Working Head and 504 Power Pump........	2 15	
2003.	Crosshead for No. 504 Power Pump........	7 00	
2004.	Side Arm (Right or Left) for No. 504 Power Pump........	4 20	
2005.	Head, Cylinder, for Gears on No. 504 Power Pump........	11 90	
2006.	Bearing Cap for Gear Shaft on No. 504 Power Pump........	4 90	
2007.	Bearing Cap with Gear Shield for No. 504 Power Pump........	7 00	
2008.	Bushing, Brass, for Wrist Pin (1¼ inch I. D. x 1½ inch O. D. x 1½ inch long), for Nos. 343, 501, 502 Power Pumps........	2 80	
2009.	Plunger Plate, Brass (1½ inch Diameter), for Air Cylinder........	35	
2010.	Lock Nut, Brass, (⅜ inch Pipe Size)........	20	
2011.	Cap, Lower, 2¼ inch, Three Bolt Brass Cylinder, Tapped 1¼ inch Pipe	1 70	
2012.	Pipe Collar or Flange, Tapped for 7 inch Pipe, for 382 Working Head........	21 00	
2013.	Body, Brass, for Double Cut-off }	3 50	
2014.	Pug, Brass, for Double Cut-off }		
2015.	Handle or Lever for Double Cut-off........	20	
2016.	Head, Cylinder, Plain, for Nos. R309, 313 Spray Pumps........	3 50	
2017.	Cylinder Shell, Brass Lined, for 3 inch Hydro-Pneumatic Cylinder, Tapped for 3 inch Pipe and 20 inch Stroke........	21 10	
2018.	Follower, 8 inch Diameter x ½ inch long, for F Plunger, Double Leather, Brass....	8 45	
2019.	Drop Valve, Brass, for 8 inch Plunger........	7 05	
2020.	Bushing, Brass, for Side Arm on No. 382 Working Head........	4 70	
2021.	Gear, Cut Teeth (60 Teeth, 6 Pitch), for Nos. 343, 378A, 379A, 387, 501, 502 Pumps	11 25	
2022.	Pinion, Cut Teeth (Steel) 12 Teeth, 6 Pitch, for Nos. 343, 378A, 379A, 387, 480, 501, 502 Pumps........	3 50	
2023.	Cap, Lower, 8 inch, Four Bolt Brass Cylinder, Tapped for 4 inch Pipe........	14 05,	$22 50
2024.	Cap, Upper, 8 inch, Four Bolt Brass Cylinder, Tapped for 4 inch Pipe........	8 45	
2025.	Cap, Upper, 2¼ inch, Three Bolt Brass Cylinder, Tapped for 1¼ inch Pipe........	1 05	
2026.	Gland for Differential Plunger on No. 382 Working Head........	5 60	
2027.	Stuffing Box Cap or Head for Differential Plunger on No. 382 Working Head........	35 15	
2028.	Male End, Brass, for ½ inch Hose Coupling and 2 inches long........	50	
2029.	Differential Punger for No. 382 Working Head........	35 15	
2030.	Lock Nut for Bottom of Repair No. 2029 on No. 382 Working Head........	1 40	
2031.	Pipe Collar Flange, Tapped for 6 inch Pipe, for No. 382 Working Head........	21 00	
2032.	Rack with Windmill Attachment for Cog Gear Gusher Pump........	1 05	
2033.	Valve Seat, Brass, for Air Chamber on Nos. R309, 313 Pumps........	85	
2034.	Washer, Brass, for Lever Shut-off........	10	
2035.	Nut, Hexagon (Brass), for Lever Shut-off........	10	
2036.	Head for Hydro-Pneumatic Pump, threaded for 2 inch Air Cylinder........	4 20	
2037.	Body, Brass, for Vermorel Nozzle........	1 05	
2038.	Nut, Brass, for Two Piece Hose Reducer........	40	
2039.	Connection (Brass), for Hose on Two Piece Reducer........	40	
2040.	Cylinder and Base for No. 502 Power Pump........	28 10	
2041.	Gear, Cut Teeth (65 Teeth 5 Pitch), for No. 504 Pump........	12 65	
2042.	Pinion, Cut Teeth (13 Teeth 5 Pitch), for No. 504 Pump........	4 20	
2043.	Cap, Lower, 2½ inch, Three Bolt Brass Cylinder, Tapped for 1½ inch Pipe........	1 70	
2044.	Cap, Upper, 2½ inch, Three Bolt Brass Cylinder, Tapped for 1½ inch Pipe........	1 05	
2045.	Flange, 10¾ inch Diameter, for 4 inch Discharge Pipe on No. 382 Working Head......	9 85	
2046.	Fulcrum Head. Windmill Head, for Stands........	3 50	
2047.	Rack for Windmill Head Stands........	1 40	
2048.	Roller for Rack No. 2047........	50	
2049.	Pipe Collar, or Flange, Tapped for 5 inch Suction Pipe on No. 382 Working Head....	21 10	
2050.	Cap (Brass), for Long Distance Spray Nozzle........	75	
2051.	Body (Brass), for Long Distance Spray Nozzle........	1 05	
2053.	Male End, Brass, for Fig. 1284 Hose Coupling........	50	
2054.	Connecting Nut, Brass, for Fig. 1284 Hose Coupling........	40	
2055.	Flange End, Brass, for Fig. 1284, Hose Coupling........	40	
2056.	Plug with Hexagon Nut, 2 inch, for Suction on No. 504 Power Pump........	1 05	
2057.	Washer, or Wrist Pin Cap, for No. 504 Power Pump........	1 75	
2058.	Plunger Plate, 5 in. Diameter x ½ inch thick, for between Leathers on No. 504 Power Pump	95	
2059.	Head, Cylinder, Plain, for No. 454 Pitman Power Pump........	4 20	
2060.	Crosshead for Yoke, for No. 454 Pitman Power Pump........	5 60	
2061.	Yoke for No. 454 Pitman Power Pump........	1 70	

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Rep. No.		Price.	Complete.
2062.	Shaft or Pitman Collar for Loose Pulley on 3 x 5 Bulldozer Pump....................	$0 55	
2063.	Handle (Ratchet) for Windmill Stands....................	2 80	
2064.	Cap, Tapped for Guide Rods for Air Cylinder on No. 504 Pump....................	6 30	
2065.	Cylinder with Air Attachment for 3 inch Century Low Down Pump, Brass Seats..........	15 45	
2066.	3 in. Bucket Plate for between Leather on Century Low Down and Bulldozer Power Pumps	55	
2067.	Cylinder and Base, Brass Lined, for 2 inch Nos. R279, R309, 313 Pumps (abandoned).	12 65	
2068.	Cylinder Shell for Anti-Freezing Siphon Pump....................	7 05	
2069.	Base for Anti-Freezing Siphon Pump....................	2 80	
2070.	Base (with Suction at side) for Nos. R287A, 378A, 379A Vertical Hydro-Pneumatic Pumps	4 20	
2071.	Pulley (14 inch Diameter x 2½ inch Face) fitted for 1⅛ inch Shaft for Nos. 378A, 379A, 501, 502 Pumps....................	4 50	
2072.	Base for No. R335 Hydraulic Spray Pump....................	5 60	
2073.	Sub-Base for No. 386 Back Geared Working Head....................	3 15	
2074.	Yoke for No. 386 Back Geared Working Head....................	8 45	
2075.	Crosshead for No. 386 Back Geared Working Head....................	2 80	
2076.	Windmill Wood Rod Connection, 1 inch Piston, for No. 386 Back Geared Working Head.	2 15	
2077.	Side Arm for No. 386 Back Geared Working Head....................	4 20	
2078.	Cylinder Shell, 2½ inch, Brass Lined, for Hydro-Pneumatic Cylinder (10 inch Stroke)..	11 25	
2079.	Rod Coupling, $\frac{13}{16}$ inch, with two Set Screws for Nos. S159 to S162 Anti-Freezing Siphon Pumps....................	1 40	
2080.	Plunger Follower, $2\frac{1}{16}$ inch, for Air Plunger, on Nos. 285A, 286A Pumps..............	55	
2081.	Inner Plunger Casting, for $2\frac{1}{16}$ in. Air Plunger on Nos. 285A, 286A, 378A, 379A Pumps.	35	
2082.	Side Arm for No. 385 Working Head....................	4 90	
2083.	Bushing for 1 inch Piston Rod on No. 385 Working Head....................	2 15	
2084.	Yoke for No. 385 Working Head....................	8 45	
2085.	Sub-Base, 16 inches Diameter, for No. 385 Working Head....................	5 60	
2086.	Rod Coupling, 1 inch, for No. 385 Working Head....................	1 70	
2087.	Cylinder with Base for Nos. 454½ and 473 Pumps....................	14 05	
2088.	Head (Cylinder), fitted for Stuffing Box for No. 473 Marine Pump....................	3 50	
2089.	Head (Cylinder), Plain, for Nos. 454½ and 473 Pumps....................	2 80	
2090.	Cylinder Body, 2½ inch (Brass Lined or Polished,) with Seats, for Nos. 285 and R285 Pumps....................	15 45	
2092.	Cylinder Body, 2½ inch (Brass Lined or Polished), with Seats, for Nos. 285A, R285A Pumps....................	15 45	
2093.	Street Elbow, 1¼ inch x 1 inch Pipe for No. R335 Pump....................	40	
2094.	Connection for Side Arm and Piston Rod on No. 365 Universal Pump Jack..............	55	
2095.	Cap, Lower, 2 inch Brass Lined (Outside), Brass Seat, Tapped for 1½ inch Pipe......	1 40	
2096.	Stuffing Box Cap for No. 385 Working Head....................	1 40	
2097.	Plunger Plate (Inner), 2½ inch, for No. 501 Power Pump....................	30	
2098.	Plunger Plate, 2½ inch, for No. 501 Power Pump....................	35	
2099.	Oil Box Lid for No. 383 Working Head and Nos. 501, 502 and 504 Pumps..............	35	
2100.	Spout, Plain, 1¾ inch Outlet, to bolt on Repair No. 1671....................	1 40	
2101.	Rod Coupling, $\frac{13}{16}$ x 1 inch, for No. 385 Working Head....................	1 70	
2102.	Brace, Right or Left, for No. 382 Working Head....................	9 10	
2103.	Cylinder with Base, 2½ inch, Brass Lined for No. 285 Pump, with Brass Seats......	15 45	
2104.	Cylinder with Base, 2½ inch, Brass Lined (Removable) for Nos. R438 and 439 Pumps (High Discharge Valves), with Brass Seats....................	14 00	
2105.	Cylinder Head, 2½ inch, Tapped for Guide Rods for Nos. 439, 456 and 456A Pumps (High Discharge Valves)....................	5 60	
2106.	Cylinder Head, 2½ inch, Tapped for Stuffing Nut for Nos. 285 and 286 Pumps (High Discharge Valves)....................	3 50	
2107.	Cylinder Head, (Ratchet), 2½ inch, Tapped for Stuffing Nut for Nos. R285 and R286 Pumps (High Discharge Valves)....................	4 20	
2108.	Cylinder Head (Plain) for Nos. 285, R285, 286, R286 and 456 Pumps (High Discharge Valves)....................	2 15	
2109.	Cylinder Head (Plain), 2½ in., for Nos. R438 and 439 Pumps (High Discharge Valves).	4 20	
2110.	Valve Caps for Nos. 285, R285, R438 and 439 Pumps (High Discharge)..............	1 10	
2111.	Stuffing Box Cap for $\frac{13}{16}$ inch Piston Rod for No. 386 Working Head....................	1 40	
2112.	Wing Drop Valve for Nos. 285 and R285 Pumps (High Discharge)....................	65	
2113.	Check Valve Weight for 2½ inch Leather Check Valve....................	20	
2114.	Cylinder Body, 3 inch (Left), for No. 456A Pump (abandoned)....................	16 85	
2115.	Compression Cap for Repair No. 2088 on No. 473 Pump....................	1 05	
2116.	Balance Wheel for No. 382 Working Head....................	56 25	
2117.	Rack, Tapped for ½ inch Piston Rod, for Nos. R279 and R309 Pumps..............	1 05	
2118.	Head, Cylinder, Tapped for Guide Rods, for Nos. 313 and 458 Pumps (to replace Repair No. 1966)....................	3 50	
2119.	Head, Cylinder, (Ratchet) for Nos. 220 and 222 Pitcher Pumps....................	1 40	
2120.	Handle, Ratchet for Nos. 220 and 222 Pitcher Pumps....................	1 75	
2121.	Rack, for Nos. 220 and 222 Pitcher Pumps....................	85	
2122.	Roller for Rack No. 2121 on Nos. 220 and 222 Pitcher Pumps....................	50	
2123.	Stand and Jug combined for Nos. 93, R93, 94, R94, 94½, R94½ Pump Stands......	7 00	
2124.	Head for Repair No. 2123 on Nos. 93, 94, 94½ Pump Stands....................	3 50	
2125.	Oscillating Link for Repair No. 2124 on Nos. 93, 94, 94½ Pump Stands..............	1 40	
2126.	Head, Ratchet for Repair No. 2123 on Nos. R93, R94, R94½ Pump Stands..........	3 50	
2127.	Rack, for Repair No. 2126 on Nos. R93, R94, R94½ Pump Stands....................	1 40	
2128.	Head, Cylinder, Tapped for Guide Rods, for No. 454½ Pump....................	7 00	
2129.	Head, Cylinder, Hydro-Pneumatic for Nos. 285A and 456A Pump (High Discharge Valves)	4 20	
2130.	Can Cover for Filling Hole on No. 329 Spraying and Whitewashing Pump............	1 05	
2131.	Lid for Can Cover for Filling Hole on No. 329 Spraying and Whitewashing Pump......	30	
2132.	Head, Cylinder (Ratchet) for Nos. R279 and R309 Pumps....................	4 20	
2133.	Clamp to clamp on Repair No. 2130 on No. 329 Spraying and Whitewashing Pump....	4 00	
2134.	Cylinder Shell, 3 inch, for Hydro-Pneumatic Cylinder, Tapped 3 inch, 10 inch Stroke...	11 25	
2135.	Cylinder and Base, 3 inch for Nos. 286 and 456 Pumps (High Discharge Valves)......	15 20	
2136.	Crosshead (Improved) for No. 352 Pump....................	11 25	

Rep. No.		Price.	Complete.
2137.	Rocker Handle Socket for Nos. 451 and 452 Gusher Pumps	$2 15	
2138.	Crosshead for No. 454½ Pump	5 60	
2139.	Head, Ratchet, for No. 230 Style Pump	2 80	
2140.	Cap, Upper, 2¾ inch, Three Bolt, Brass Cylinder, Tapped for 1½ inch Pipe	1 05	
2141.	Cap, Lower, 2¾ inch, Three Bolt, Brass Cylinder, Brass Seat, Tapped for 1½ inch Pipe	1 70	
2142.	Head, Ratchet, for all Windmill Branch Pipe Pumps	2 80	
2143.	Rack for Double Acting Force House Pump	1 05	
2144.	Handle (Ratchet) for Double Acting Force House Pump	1 75	
2145.	Head (Ratchet) for Double Acting Force House Pump	1 75	
2146.	Rack, Tapped ⅜ inch Pipe Size for No. R286 Pump	1 05	
2147.	Eye for Piston Rod, Tapped ⅜ inch Pipe Size for Nos. 285 and 286 Pumps	65	
2148.	Cylinder and Base, 3 inch, for Nos. 286A and 456A Pumps, with Seats, (High Discharge Valves) (abandoned)	15 20	
2149.	Body (Improved) for No. 382 Bulldozer Working Head	175 80	
2150.	Stuffing Box Cap or Head (Improved) for Differential Plunger on No. 382 Bulldozer Working Head	35 15	
2151.	Stuffing Box Cap or Head (Improved) for No. 382 Bulldozer Working Head	35 15	
2152.	Clamp for Potato Sprayer	35	
2153.	Valve Caps for Repairs Nos. 2135 and 2148 on Nos. 286 and R286 Pumps	1 40	
2154.	Hose Nipple (Suction) for 2 inch Hose	85	
2155.	Air Chamber for Discharge on No. 382 Bulldozer Working Head	28 10	
2156.	Tee for Air Chamber on No. 382 Bulldozer Working Head	14 05	
2157.	Crosshead for 3 inch Low Down, ⅜ inch Pipe Tap for Nos. 439 and 456 Pumps (abn'd)	2 80	
2158.	Gear (Cut Teeth), 65 Teeth, 5 Pitch, for Nos. 351, 353, 359 and 362 Pumps	14 05	
2159.	Cap, Upper, 2½ inch, for Fig. 1391 Cylinder	1 70	
2160.	Cap, Lower, 2½ inch, for Fig. 1391 Cylinder	2 45	
2161.	Cap, Lower, 3 inch, for Fig. 1391 Cylinder	3 15	
2162.	Cap, Lower, 3½ inch, for Fig. 1391 Cylinder	4 20	
2163.	Cap, Lower, 4 inch, for Fig. 1391 Cylinder	4 90	
2164.	Cap, Lower, 5 inch, for Fig. 1391 Cylinder	7 05	
2165.	Cap, Lower, 6 inch, for Fig. 1391 Cylinder	9 85	
2166.	Stuffing Box for No. 2123 Repair on Nos. 94, R94, R94½ Pump Stands	1 40	
2167.	Cylinder and Base, Brass Lined, with Brass Seats, 2½ inch, for No. 285A Pump (abn'd)	15 20	
2168.	Bushing for Pitman Connection on No. 347 Countershaft and No. 370 Horse Power	1 40	
2169.	Gear (Cut Teeth), 72 Teeth, ¾ inch Circular Pitch, for No. 352 Pump	35 15	
2170.	Cylinder and Base, Brass Lined, 3 inch for No. 355½ Horse Power and Pump	18 30	
2171.	Roller for Rack on No. R287A Pump	65	
2172.	Cylinder Body for Nos. 378A and 379A Pumps (abandoned)	21 10	
2173.	Side Arm (Right or Left) for Nos. 378A, 379A and 387 Pumps	4 20	
2174.	Crosshead for Nos. 378A, 379A and 387 Pumps (abandoned)	5 60	
2175.	Crank Wheel for Nos. 378A, 379A, 387, 475 and 475G Pumps	4 90	
2176.	Cylinder and Base for Nos. R279, R309 and 313 Pumps, with Valve Seats and Valve Caps (abandoned)	16 85	
2177.	Cylinder Head for Nos. 378A and 379A Pumps (abandoned)	8 45	
2178.	Base for No. 359 Working Head (Cut Gears)	28 10	
2179.	Rack for Nos. R245, R246½, R247 and R248½ Pumps	1 05	
2180.	Body for No. 384 Working Head	56 25	
2181.	Gear (Cut Teeth) with 84 Teeth (5 Pitch) for No. 384 Working Head	25 30	
2182.	Pinion (Cut Teeth), Steel, with 12 Teeth (5 Pitch) for No. 384 Working Head	4 20	
2183.	Cover Lid or Pipe Flange Combined for No. 384 Working Head	11 25	
2184.	Stuffing Box Cap or Head for No. 384 Working Head	7 05	
2185.	Stuffing Box Gland for No. 384 Working Head	3 50	
2186.	Crosshead (Long) with Side Arm Bearings for No. 384 Working Head	14 05	
2187.	Crosshead (Short) for No. 384 Working Head	7 00	
2188.	Side Arm (Right or Left) for No. 384 Working Head	7 00	
2189.	Wrist Pin, Side Arm, on No. 384 Working Head	4 20	
2190.	Washer, or Wrist Pin Cap, for No. 384 Working Head	1 70	
2191.	Bearing Cap for 1½ inch Shaft on No. 384 Working Head	4 20	
2192.	Bearing Cap with Gear Shield (Right) for No. 384 Working Head	4 90	
2193.	Bearing Cap with Gear Shield (Left) for No. 384 Working Head	4 90	
2194.	Brace (Right or Left) for No. 384 Working Head	4 20	
2195.	Tie for Guide Rods on No. 384 Working Head	4 20	
2196.	Lid for Oil Box on No. 384 Working Head	35	
2197.	Air Chamber for Nos. R279, 458 and 500 Pumps (abandoned)	4 20	
2198.	Union Nut for Air Chamber on Nos. R309, 313, 458, 500 and 580 Pumps	1 05	
2199.	Balance Wheel for No. 384 Working Head	14 05	
2200.	Air Chamber and Tee Flange for Discharge on No. 384 Working Head	14 05	
2201.	Cylinder, 3 inch, for No. R287A Pump	9 85	
2202.	Plunger Plate, 2 1/16 inch, for Air Cylinder on Nos. R285A and R286A Pumps	65	
2203.	Head, Cylinder (Ratchet), for Nos. R268 and R269 Pumps	4 20	
2204.	Shield over Gear for Nos. 378A and 379A Pumps (abandoned)	1 05	
2205.	Check Valve Weight for 8 inch, Fig. 1142 Cylinder	1 05	
2206.	Cylinder for Nos. R440, R441 and R460 Pumps	37 95	
2207.	Ratchet Handle Socket and Pitman Lever for Nos. R440, R441 and R460 Pumps	9 85	
2208.	Ratchet Head for Nos. R440, R441 and R460 Pumps	18 30	
2209.	Rack for Nos. R440, R441 and R460 Pumps	2 15	
2210.	Lock Nut for Bottom of Ratchet Head on Nos. R440, R441 and R460 Pumps	1 40	
2211.	Valve Caps for Nos. R440, R441, R460, 449, 450 and 460 Pumps	1 10	
2212.	Air Chamber for Nos. R440 and R441 Pumps	7 00	
2213.	Plug and Eye for Plunger on Nos. R440, R441, R460 and 480 Pumps	2 15	
2214.	Handle for No. 319 Defiance Spray Pump	65	
2215.	Intermediate Bracket (Malleable) for Tubular Track New Way	20	
2216.	Oscillating Link for No. 10 New Way Door Hanger	35	
2217.	End Bracket (Malleable), Right or Left, for Tubular Track New Way	20	

Rep. No.		Price.
2219.	Gear (Cut Teeth) with 90 Teeth, 3 Pitch, for Nos. 382 and 382½ inch Working Heads.	$91 40
2220.	Pinion (Cut Teeth) with 15 Teeth, 3 Pitch, for Nos. 382 and 382½ Working Heads....	18 30
2221.	Cap for Air Chamber with Outlet for Nos. 327 and 327½ Pumps..................	1 05
2222.	Reducer Couplings, 1½ inch Female to 1⅛ inch Male for Power Pumps..............	2 45
2223.	Reducer Couplings, 1½ inch Female to ⅞ inch Male for Power Pumps..............	2 25
2224.	Reducer Couplings, 1½ inch Female to ⅝ inch Male for Power Pumps..............	2 25
2225.	Reducer Couplings, 1⅛ inch Female to ⅞ inch Male for Power Pumps..............	1 90
2226.	Reducer Couplings, 1⅛ inch Female to ⅝ inch Male for Power Pumps..............	1 75
2227.	Reducer Couplings, ⅞ inch Female to ⅝ inch Male for Power Pumps..............	1 40
2228.	Reducer Couplings, ⅜ inch Rod or ⅜ inch Pipe x ⅝ inch Rod for Pump Stands, per lb.	35
2229.	Pinion (Cut Teeth), Steel, with 12 Teeth, ¾ inch Circular Pitch for No. 352 Pump....	9 80
2230.	Rocker Handle Socket for Nos. 451 and 452 Pumps (Gusher)....................	2 15
2231.	Rocker Handle Socket for Nos. 451 and 452 Pumps (Dakota)....................	2 15
2232.	Rocker Handle Socket for Nos. 452 Pumps (Winner)............................	2 15
2233.	Head, Cylinder, for Cut Gears on Nos. 353 and 362 Pumps......................	11 25
2234.	Bearing Cap with Gear Shield for Cut Gears on Nos. 353 and 362 Pumps............	7 05
2235.	End Support for Air Cylinder on No. 352A Pump (abandoned)....................	6 30
2236.	Crosshead (⅜ inch Pipe Tap) for Nos. 343, 501 and 502 Pumps (abandoned)........	5 60
2237.	Cap Washer for Wrist Pin on Nos. R440, R441 and R460 Pumps.................	1 75
2238.	Wrench for B184 Stuffing Nut on Nos. R440, R441, R460 and 480 Pumps............	65
2239.	Pinion (Cut Teeth), Steel, with 13 Teeth, 5 Pitch, for Nos. 351, 353, 359 and 362 Pumps.	4 20
2240.	Pitman Connection with Stub for Nos. R440, R441 and R460 Pumps................	2 15
2241.	Idler Gear (Cut Teeth) with 60 Teeth, 6 Pitch, for No. 343G Pump................	8 45
2242.	Base, Tapped for 3 inch Pipe for No. 379A Pump...............................	4 20
2243.	Cylinder and Base, High Discharge Valves, for Nos. 464, 475 and 475G Pumps........	16 85
2244.	Sub-Base, Tapped for 1¼ inch Pipe, for No. 385 Working Head..................	5 60
2245.	Base with Shaft Bearings for Cut Gear on No. 347 Countershaft..................	14 05
2246.	Bearing Cap for No. 2245 on No. 347 Countershaft............................	5 60
2247.	Gear (Cut Teeth), Right, with 120 Teeth, 5 Pitch, for No. 363 Pump and 364 Working Head	49 20
2248.	Gear (Cut Teeth), Left, with 120 Teeth, 5 Pitch, for No. 363 Pump and No. 364 Working Head	49 20
2249.	Pinion (Cut Teeth), Steel, with 15 Teeth, 5 Pitch, for No. 363 Pump and No. 364 Working Head	9 10
2250.	Pinion (Cut Teeth) with 24 Teeth, 6 Pitch, to go with No. 2241 on Nos. 343G and 480 Pumps	4 20
2251.	Elevating Bolt for No. 10 New Way Door Hanger.............................	50
2252.	Cylinder and Base for No. 500 Pump (abandoned)............................	18 30
2253.	Cap Washer for Ends on Crosshead, on Nos. 500 and 580 Pumps..................	1 05
2254.	Cap Washer for Gear Wrist Pin on Nos. 500 and 580 Pumps......................	1 10
2255.	Head, Cylinder, for Gears on No. 500 Pump.................................	9 10
2256.	Head, Cylinder, Tapped for Guide Rods, for Nos. 443, 443G, 500 and 580 Pumps......	7 00
2257.	Bearing Cap with Gear Shield for Gear Shaft on No. 500 Pump..................	3 50
2258.	Bearing Cap with Gear Shield for Pulley Shaft on No. 500 Pump.................	5 60
2259.	Bearing Cap between Pulley and Pinion for No. 500 Pump......................	1 25
2260.	Side Arm (Right or Left) for No. 500 Pump.................................	3 90
2261.	Crosshead for No. 500 Pump (abandoned)...................................	4 90
2262.	Gear (Cut Teeth), with 65 Teeth, 8 Pitch, for No. 500 Pump....................	9 85
2263.	Pinion (Cut Teeth), Steel, with 13 Teeth, 8 Pitch, for No. 500 Pump..............	3 15
2264.	Male End for 1¼ inch Chase Union (goes with No. 251).......................	30
2265.	Shaft Bearing (1½ inch) for Shaft Hangers on Nos. 352 and 363 Pumps and No. 364 Working Head	2 15
2266.	Bucket Plate, inner, for 2 inch Canvas Bucket...............................	35
2267.	Foot Valve, 2½ inch, Upper Half, Fig. 422.................................	85
2268.	Foot Valve, 2½ inch, Lower Half, Fig. 422.................................	1 25
2269.	Valve Seat for 2½ inch Foot Valve, Fig. 422................................	40
2270.	Check Valve, 2 inch, Upper Half, Fig. 421.................................	1 75
2271.	Check Valve, 2 inch, Lower Half, Fig. 421.................................	2 15
2272.	Check Valve, 2½ inch, Lower Half, Fig. 418................................	2 80
2273.	Check Valve, 2½ inch, Upper Half, Fig. 418................................	2 45
2274.	Check Valve, 3 inch, Lower Half, Fig. 418.................................	3 15
2275.	Check Valve, 3 inch, Upper Half, Fig. 418.................................	2 80
2276.	Check Valve, 2½ inch, Lower Half, Fig. 421................................	3 90
2277.	Check Valve, 2½ inch, Upper Half, Fig. 421................................	3 50
2278.	Check Valve, 3 inch, Lower Half, Fig. 421.................................	5 30
2279.	Check Valve, 3 inch, Upper Half, Fig. 421.................................	4 50
2280.	Foot Valve, 3 inch, Upper Half, Fig. 422..................................	1 75
2281.	Foot Valve, 3 inch, Lower Half, Fig. 422..................................	1 05
2282.	Flange, 14½ inch Diam., Tapped 3 inch Casing for Suction on No. 364 Working Head..	9 85
2283.	Flange, 14½ inch Diam., Tapped 3½ inch Casing for Suction on No. 364 Working Head	9 85
2284.	Flange, 14½ inch Diam., Tapped 4½ inch Casing for Suction on No. 364 Working Head	9 85
2285.	Flange, 14½ inch Diam., Tapped 5⅝ inch Casing for Suction on No. 364 Working Head	9 85
2286.	Flange, 14½ inch Diam., Tapped 6 inch Casing for Suction on No. 364 Working Head..	9 85
2287.	Valve Seat for 3 inch Foot Valve, Fig. 422................................	55
2288.	Foot Valve, 3½ inch, Lower Half, Fig. 422.................................	1 50
2289.	Foot Valve, 3½ inch, Upper Half, Fig. 422.................................	2 45
2290.	Valve Seat, for 3½ inch Foot Valve, Fig. 422...............................	1 05
2291.	Foot Valve, 4 inch, Lower Half, Fig. 422..................................	1 75
2292.	Foot Valve, 4 inch, Upper Half, Fig. 422..................................	2 80
2293.	Valve Seat for 4 inch Foot Valve, Fig. 422.................................	1 10
2294.	Head, Cylinder (Back with Gear and Pinion Shaft Bearings), for Nos. 475 and 475G Pumps	8 45
2295.	Head, Cylinder (Ratchet), for Nos. 475 and 475G Pumps.......................	4 20
2296.	Rack with Driving Lug for Nos. 475 and 475G Pumps..........................	1 40

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Rep. No.		Price.	Complete.
2297.	Crosshead for Nos. 475 and 475G Pumps	$1 05	
2298.	Side Arm Attachment (Right) for Nos. 475 and 475G Pumps	2 15	
2299.	Side Arm Attachment (Left) for Nos. 475 and 475G Pumps	2 15	
2300.	Shield for Gear and Pinion on Nos. 475 and 475G Pumps	1 05	
2301.	Air Chamber (Special) for No. 286 Pump	4 20	
2302.	Gear (Cut Teeth) with 121 Teeth, 8 Pitch	12 65	
2303.	Pinion (Cut Teeth), Steel, with 13 Teeth, 8 Pitch	3 50	
2304.	Base for Motor on No. 502 Pump	8 45	
2305.	Head, Cylinder, for Gears and with Lugs for Motor Base on No. 502 Pump	9 85	
2306.	Cap Washer for Side Arms on Nos. 475 and 475G Pumps	1 05	
2307.	Connection, 2 inch Pipe Size, for Suction on Nos. 475 and 475G Pumps	1 40	
2308.	Head (Ratchet) or Upper Cap for No. R305 Pump	2 15	
2309.	Cover and Oscillator for No. R305 Pump	1 05	
2310.	Handle (Cog Gear) for No. R305 Pump	1 70	
2311.	Sub-Base for No. 384 Working Head	35 15	
2312.	Collar for Pulley Shaft on No. 500 Pump	55	
2313.	Gear Shield for Engine Pinion (18 Teeth), for No. 475 Pump	1 05	
2314.	Cap for Gear Shield No. 2313 on No. 475 Pump	35	
2315.	Gear Shield for Engine Pinion (15 Teeth) for No. 475 Pump	1 05	
2316.	Pulley, 12 inch Diameter x 2 inch Face, for No. 500 Pump	4 20	
2317.	Cap, Upper, 5 inch, Three Bolt Brass Cylinder, Tapped for 3 inch Pipe	3 50	
2318.	Cap, Lower, 5 inch, Three Bolt Brass Cylinder, Brass Seat, Tapped for 3 inch Pipe	6 30,	$10 90
2319.	Collar for Pulley Shaft, 1¼ inch, on No. 365 Jack, Nos. 357 and 357½ Working Heads and Nos. 347-350 Countershafts	55	
2320.	Spout for No. 475 Pump	2 80	
2321.	Cap for End of Shaft on Nos. 348 and 349 Countershafts	1 40	
2322.	Pipe Collar, or Flange, Tapped for 10 inch O. D. Casing, for Nos. 382 and 382½ Working Heads	21 10	
2323.	Cylinder Body for No. 450 Pump (abandoned on 445, 446, 447, 448, 480, 480M Pumps)	37 95	
2324.	Bracket (Right or Left) for Crank Shaft on Nos. 447 and 448 Pumps	9 85	
2325.	Bearing Cap for Crank Shaft on Nos. 445, 446, 447, 448, 480, 480M Pumps	1 75	
2326.	Head, Ratchet, for Nos. R235, R235A, R236, R236A, R237, R237A, R238, R238A Pumps	4 20	
2327.	Fulcrum, Oscillating, for Ratchet Head on Nos. R235, R235A, R236, R236A, R237, R237A, R238, R238A Pumps	65	
2328.	Spout fitted for Cap for Nos. 249 to 254½ Pumps	1 75	
2329.	Bracket (Right) for Crank Shaft and Pinion on Nos. 445, 446, 447, 448, 480, 480M Pumps	11 90	
2330.	Bracket (Left) for Crank Shaft and Pinion on Nos. 445, 446, 447, 448, 480, 480M Pumps	11 90	
2331.	Reservoir Head for Nos. R150 to R155 and R170 to R175 Pumps	4 20	
2332.	Fulcrum Head or Post for Nos. R294 and R441 Pumps	9 85	
2333.	Oscillating Handle Socket for Nos. R294 and R441 Pumps	2 80	
2334.	Rack and Piston Rod for Nos. R294 and R441 Pumps	1 70	
2335.	Body and Brace with Brackets for No. 383 Working Head	91 40	
2336.	Gear (Cut Teeth) with 98 Teeth (4 Pitch) for No. 383 Working Head	42 20	
2337.	Pinion (Cut Teeth) with 14 Teeth (4 Pitch) for No. 383 Working Head	7 05	
2338.	Cover Lid and Pipe Flange combined for No. 383 Working Head	18 30	
2339.	Head or Stuffing Box Cap for No. 383 Working Head	11 25	
2340.	Crosshead (Long) with Side Arm Bearings for No. 383 Working Head	22 50	
2341.	Crosshead (Short) for No. 383 Working Head	11 25	
2342.	Side Arm (Right or Left) for No. 383 Working Head	11 25	
2343.	Brace, Right or Left, for Guide Rods for No. 383 Working Head	7 05	
2344.	Washer or Wrist Pin Cap for No. 383 Working Head	2 80	
2345.	Tie for Guide Rods for No. 383 Working Head	4 20	
2346.	Bearing Cap with Gear Shield (Right) for No. 383 Working Head	7 75	
2347.	Bearing Cap with Gear Shield (Left) for No. 383 Working Head	7 75	
2348.	Bearing Cap for 2 inch Shaft, for No. 383 Working Head	7 05	
2349.	Balance Wheel, 24¼ inch Diameter x 5 inch Face, for No. 383 Working Head	22 50	
2350.	Pulley (Loose), 24 inch Diameter x 5 inch Face, for 383 Working Head	9 85	
2351.	Air Chamber and Tee combined for No. 383 Working Head	22 50	
2352.	Bushing for Wrist Pin on Nos. 360, 361 Boiler Feeder Pumps	1 40	
2353.	Reducer Coupling, 1⅛ inch Female to 1¼ and 1½ inch Male (Pipe Size), for No. 364 Working Head	2 45	
2354.	Pipe Collar, or Flange, Tapped for 4 inch Pipe, for Nos. 382, 382½ Working Heads	21 10	
2355.	Bearing Cap for Pulley and Pinion Shaft on Nos. 445, 446, 447, 448, 480, 480M Pumps.	1 70	
2356.	Hinge for New Way Door Hanger	35	
2357.	Idler Gear (Cut Teeth) with 160 Teeth, 6 Pitch, 1¼ inch Bore, for Nos. 447 and 480M Pumps	14 05	
2358.	Rack for Nos. R235, R235A, R236, R236A, R237, R237A, R238, R238A Pumps	65	
2359.	Handle, Ratchet, for Nos. R235, R235A, R236, R236A, R237, R237A, R238, R238A Pumps	2 80	
2360.	Valve Weight for 3 inch, Fig. 422, Foot Valve	35	
2361.	Valve Weight for 2½ inch, Fig. 422, Foot Valve	30	
2362.	Connection for Air Chamber and Cylinder on Nos. R294, R460, 480, 480M Pumps	2 15	
2363.	Air Chamber (Mark-Lally) for Nos. 1015 to 1018 Pumps	6 30	
2364.	Air Chamber (Peerless) for Nos. 1115 to 1118 Pumps	6 30	
2365.	Sub-Base for Motor for Nos. 501-502 Pumps	11 25	
2366.	Pressure Controller for Power Spray Pumps (Long)	15 45	
2367.	Pressure Controller for Power Spray Pumps (Short)	14 05	
2368.	Shield over Gears on Nos. 445, 446, 449, 450, 480, 480M Pumps	1 05	
2369.	Oscillating Link for No. 279 Pump	1 05	
2370.	Eye for $\frac{9}{16}$ inch Piston on No. 279 Pump	65	
2371.	Rack for Reservoir Head No. 2331, on Nos. R150 to R155 and R170 to R175 Pumps	1 00	
2372.	Cylinder Head, 2 inch, Tapped for Stuffing Box Nut on No. 279 Pump	3 50	
2373.	Cap for Air Cylinder, Tapped for Guide Rods, for No. 500A Pump	4 90	

Rep. No.		Price.	Complete.
2374.	Base (Malleable), Right, with Filling Hole for No. R318 Pump	$1 40	
2375.	Base (Malleable), Left, for No. R318 Pump	1 05	
2376.	Lid for Filling Hole on Base No. 2374 on Nos. R299B, R308, R318 Pumps	35	
2377.	Flange, 10¾ inch Diameter, Tapped for 5 inch (Discharge), for Nos. 382, 382½ Working Head	9 80	
2378.	Flange, 10¾ inch Diameter, Tapped for 4½ inch Pipe (Discharge), for Nos. 382, 382½ Working Head	9 85	
2379.	Sub-Base for Motor for No. 500 Pump	8 45	
2380.	Rack Head for No. R318 Pump	1 75	
2381.	Base for Agar Working Head	10 50	
2382.	Bearing for 1 11/16 inch Crank Shaft for No. 390 Agar Working Heads	1 05	
2383.	Bushing, one half (Babbitt), for Agar Working Head	65	
2384.	Bearing Cap for No. 390 and Agar Working Heads	40	
2385.	Pipe Support (Outside) for Agar Working Head	1 05	
2386.	Pipe Support (Inside) for Agar Working Head	1 05	
2387.	Forked Connection for Universal Joint on No. 390 and Agar Working Heads	1 05	
2388.	Knuckle Casting for Forked Connection on No. 390 and Agar Working Heads	55	
2389.	Box (Upper Half) for Connecting Rod (Babbitt) on No. 390 and Agar Working Heads.	1 05	
2390.	Box (Lower Half) for Connecting Rod (Babbitt) on No. 390 and Agar Working Heads.	65	
2391.	Clamp for Lower and Center Guide Rod on Agar Working Head	35	
2392.	Lower Guide Rod Support on Agar Working Head	1 40	
2393.	Center Guide Rod Support on Agar Working Head	1 70	
2394.	Upper Guide and Spring Support on Agar Working Head	3 50	
2395.	Spring Holder on Agar Working Head	1 05	
2396.	Clamp for Spring Holder on Agar Working Head	30	
2397.	Crosshead for Connecting Rod on Agar Working Head	2 15	
2398.	Crosshead for Piston Rod on Agar Working Head	2 15	
2399.	Plunger Rod and Windmill Bar Connection for No. 390 and Agar Working Heads	1 70	
2400.	Oscillating Shield for Nos. R299B, R307, R308 Pumps	65	
2401.	Rack Head for Nos. R299B, R307, R308 Pumps	2 80	
2402.	Eye for Plunger Rod on Nos. R299B, R307, R308 Pumps	55	
2403.	Handle, Ratchet (Malleable) for Nos. R299B, R307, R308 Pumps	2 80	
2404.	Sub-Base (Large), for Motor for Nos. 501 and 502 Pumps	11 25	
2405.	Cylinder Shell, 3 inch for 10 inch Stroke, Hydro-Pneumatic Cylinder (Tapped for 2½ and 3 inch Pipe)	12 65	
2406.	Cylinder Shell, 3½ inch, for 10 inch Stroke, Hydro-Pneumatic Cylinder (Tapped for 3 and 3½ inch Pipe)	14 00	
2407.	Crank Shaft for No. 390 and Agar Working Heads	16 85	
2408.	Reducer Bushing, 1¼ x 2½ inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 05	
2409.	Reducer Bushing, 1¼ x 3 inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 40	
2410.	Reducer Bushing, 1¼ x 3½ inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 75	
2411.	Reducer Bushing, 1½ x 3 inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 40	
2412.	Reducer Bushing, 1½ x 3½ inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 75	
2413.	Reducer Bushing, 1½ x 2½ inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 05	
2414.	Reducer Bushing, 2 x 3 inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 40	
2415.	Reducer Bushing, 2 x 3½ inch (Standard Pipe Thread), for Hydro-Pneumatic Cylinder	1 70	
2416.	Filling Hole Casting on Barrel for No. R316B Pump	1 40	
2418.	2½ inch Air Cylinder Cap for No. 377A Pump	1 70	
2419.	Thumb Screw for adjusting Pressure Controller	50	
2420.	Coupling for Agitator on No. 329 Pump	65	
2421.	Follower with Cage (Malleable) for 2½ inch Plunger on Hydro-Pneumatic Cylinder	1 00	
2422.	Follower with Cage (Malleable) for 3 inch Plunger on Hydro-Pneumatic Cylinder	1 00	
2423.	Follower with Cage (Malleable) for 3½ inch Plunger on Hydro-Pneumatic Cylinder	1 10	
2424.	Cage (Malleable) for 2½ inch Plunger on Hydro-Pneumatic Cylinder	60	
2425.	Cage (Malleable) for 3 inch Plunger on Hydro-Pneumatic Cylinder	65	
2426.	Cage (Malleable) for 3½ inch Plunger on Hydro-Pneumatic Cylinder	85	
2427.	Trolley Frame, one half, for Store Ladder	2 80,	$6 30
2428.	Base, one half, with Filling Hole for Top of Barrel for No. R308 Pump	1 40	
2429.	Base, one half, for Top of Barrel for No. R308 Pump	1 05	
2430.	Upper Guide and Spring Support for No. 390 Stand Pipe Working Head	4 20	
2431.	Crosshead for Piston Rod on No. 390 Stand Pipe Working Head	2 80	
2432.	Crosshead for Connecting Rod on No. 390 Stand Pipe Working Head	3 50	
2433.	Lower Guide Rod Support for No. 390 Stand Pipe Working Head	2 15	
2434.	Flange to hold 3 inch Pipe to Base on No. 390 Stand Pipe Working Head	4 20	
2435.	Base for No. 390 Stand Pipe Working Head	10 50	
2436.	Coupling for Agitator Rod on Nos. R299B, R307, R308 Pumps	65	
2437.	Base, one half, with Filling Hole for Side of Barrel on No. R299B Pump	1 40	
2438.	Base, one half, for Side of Barrel on No. R299B Pump	1 05	
2439.	Paddle Lever (Left) for Nos. R299B, R307, R308 Pumps	65	
2440.	Paddle Lever (Right) for Nos. R299B, R307, R308 Pumps	65	
2441.	Gear (Cut Teeth) with 72 Teeth, 6 Pitch, 1¼ inch Bore (6 and 9 inch Stroke) for Nos. 388, 388G Working Heads	11 25	
2442.	Cylinder and Base for Nos. 279, R279, R309, 313, R316B and 458 Pumps, with Valves, Seats and Valve Caps	15 20	
2443.	Cylinder Body with Split Bearings for Nos. 378A, 379A Pumps	21 10	
2443.	Cylinder Body with Split Bearings for No. 387 Working Head	16 85	
2444.	Bearing Cap for Gear, 1¼ inch Shaft on Nos. 378A, 379A Pumps and 387 Working Head	3 50	
2445.	Bearing Cap with Gear Shields for Nos. 378A, 379A Pumps and No. 387 Working Head.	4 90	
2446.	Air Chamber, 1½ inch Pipe Size, for Nos. R309, 313, R316B, 435, 436 and 443 Pumps	6 30	
2447.	Gear (Cut Teeth) with 60 Teeth, 6 Pitch, 1¼ inch Bore for Nos. 445, 446, 480, 480M Pumps	8 45	
2448.	Gear, Idler (Cut Teeth), with 65 Teeth, 5 Pitch, 1¼ in. Bore for Nos. 353 and 504 Pumps	9 85	
2449.	Spout Head or Air Chamber for No. 95 Stand	9 85	

Rep. No.		Price.	Complete.
2450.	Cylinder and Base (Improved) for Nos. 443 and 500 Pumps	$33 75	
2451.	Stand and Shaft Support for Nos. 388 and 388G Working Heads	16 85	
2452.	Air Chamber and Head Support for Nos. 388 and 388G Working Heads	9 85	
2453.	Side Arm and Piston Rod Connection for Nos. 388 and 388G Working Heads	65	
2454.	Crank Wheel, 6 and 9 inch Stroke for Nos. 388, 388G Working Heads	4 60	
2455.	Bearing Cap for Gear Shaft on Nos. 388 and 388G Working Heads	2 80	
2456.	Shield for Gear and Pinion on Nos. 378, 379, 387, 388 and 388G Working Heads	1 05	
2457.	Air Chamber for Nos. 279, R279, 458 and 500 Pumps	4 20	
2458.	Bearing Cap for Support for Idler Pulley on No. 445 Pump	2 15	
2459.	1½ inch Collar for Pulley Shaft	55	
2460.	4 inch Flanged Pulley (Idler) for 2½ inch Belt for No. 445 Pump	4 90	
2461.	Support for Idler Pulley on No. 445 Pump	3 90	
2462.	Flange, 4½ inch O. D. x 1¼ inch Pipe Tap for Repairs Nos. 2040, 1972	1 05	
2463.	Cylinder Cap with Stuffing Box for Pump No. 387	5 60	
2464.	Gear, 88 Teeth, 5 D. P., 2⅜ inch Face, 1½ inch Bore, Drive Gear Cut for Motor Connection.	35 15	
2465.	Sub-Base for No. 364 Bulldozer Working Head	35 15	
2466.	Cylinder Body for 2 inch Duplex Pumps Nos. 435 and 436	32 35	
2467.	Crank Shaft for 2 inch Duplex Pumps (Drop Forging) Nos. 435 and 436	9 85	
2468.	Bearing Bracket (Right) for Pumps Nos. 435 and 436	10 50	
2469.	Bearing Bracket (Left) for Pumps Nos. 435 and 436	10 50	
2470.	Bearing Cap for ⅞ inch Shaft for Pumps Nos. 435 and 436	1 75	
2471.	Bearing Cap for 1⅛ inch Shaft for Pumps Nos. 435 and 436	1 75	
2472.	Plunger Casting or Plug for Pumps Nos. 435 and 436	1 75	
2473.	Gear, Cut 68 Teeth, 8 D. P., 1⅛ inch Bore, 1¼ inch Face for Nos. 435 and 436 Pumps.	8 45	
2474.	Pinion, 15 Teeth, 8 D. P., ⅞ inch Bore, 1¼ inch Face for Nos. 435 and 436 Pumps	3 50	
2475.	Base with Bearings for Pump No. 389	9 85	
2476.	Drive Gear, Cut 120 Teeth, 5 D. P., 2½ inch Face, 1½ inch Bore for Motor Connection.	42 20	
2477.	Gear, Cut 120 Teeth, 5 D. P., 2⅛ inch Face, 2 inch Bore, 16 and 20 inch Stroke for Pumps Nos. 363 and 364	49 20	
2478.	Air Chamber for No. 364 Pump (New Design)	49 20	
2479.	Base for No. 364 Pump (New Design)	91 40	
2480.	Crosshead (Long Half) for No. 364 Pump (New Design) (abandoned)	8 45	
2481.	Side Arm (Right or Left) for No. 364 Pump (New Design) (abandoned)	9 85	
2482.	Pinion Shield for No. 364 Pump (New Design)	1 40	
2483.	Body with Spout Outlet for Pump No. 255	3 50	
2484.	Lower Cap, 1 inch Pipe Tap, for Pump No. 255	1 40	
2485.	Stuffing Box Cap for Pump No. 255	1 40	
2486.	Base (Upper Half) for 6 inch Irrigation Cylinder	8 45	
2487.	Base (Upper Half) for 8 inch Irrigation Cylinder	12 65	
2488.	Crosshead for Pump No. 389	35	
2489.	Steel Disc for Nozzle, Figs. 1317, 1359	05	
2490.	Connecting Eye for No. 390 Working Head	1 70	
2491.	Crank Shaft for No. 390 Working Head	16 85	
2492.	Bucket Plate between Leathers for 6 inch Cylinder on Power Pumps	1 05	
2493.	Bucket Plate, inner, for 6 inch Cylinder on Power Pumps	65	
2494.	Sleeve to hold Pump in Barrel on Fig. 1578	1 40	
2495.	Gear, Cut 54 Teeth, 6 D. P., 1¼ inch Bore, 1⅜ inch Face, for Pump No. 377A	11 25	
2496.	Clamp for 2½ inch Pipe for No. 307 Pump	1 05	
2497.	Pinion Shield for Pumps Nos. 435 and 436	65	
2498.	Lever (Malleable) for ¾ inch Shut-off on Hydro-Pneumatic Cylinder	35	
2499.	Lever (Malleable) for ½ inch Shut-off on Hydro-Pneumatic Cylinder	35	
2500.	Wrist Pin, 1¼ inch Diameter, C. R. S. for Pumps Nos. 388 and 389, and others	1 05	
2501.	Cylinder Head (Rear) with Bearings for Pump No. 377A	8 45	
2502.	Cylinder Head (Front) and Handle Support for Pump No. 377A	4 90	
2503.	Rack with Driving Lug for Pump No. 377A	1 40	
2504.	Plunger Casting for Air Cylinder on Pump No. 377A	1 05	
2505.	Air Cylinder Support on Pump No. 377A	1 40	
2506.	Crank Wheel, 4½ inch Stroke for Pump No. 377A	4 20	
2507.	Plunger Casting, Inner, for Air Cylinder on Pump No. 377A	65	
2508.	Fitting (½ inch Pipe Size) for Air Intake on Hydro-Pneumatic Cylinders	20	
2509.	Fitting (¾ inch Pipe Size) for Air Intake on Hydro-Pneumatic Cylinders	20	
2510.	Handle Socket with Lug for Agitator Rod on Pump No. R316B	1 70	
2511.	Drive Gear, Cut 44 Teeth, 8 D. P., 1¼ inch Face, ⅞ inch Bore, used on Nos. 436 and 500G Pumps.	7 00	
2512.	Sub-Base for Pump No. 389	4 90	
2513.	Stuffing Box for Agitator Shaft, Fig. 1558 Tank	2 15	
2514.	Drive Gear, Cut 55 Teeth, 8 D. P., 1¼ inch Face, ⅞ inch Bore for Pumps Nos. 436 and 500G.	8 45	
2515.	Stand (Improved) with Shaft Bearings for Pump No. 357	21 00	
2516.	Bearing Cap for 1½ inch Shaft for Pump No. 357	1 40	
2517.	Bushing for 1 inch Pipe Plug in bottom of Tank, Fig. 1591	1 40	
2518.	Sprocket Wheel, 12 Teeth, Bored 1¼ inch, for Fig. 1580 Rig (abandoned)	2 15	
2519.	Sprocket Wheel, 12 Teeth, Bored 13/16 inch for Agitator Shaft, Fig. 1580 Rig (abandoned).	2 15	
2520.	Cylinder and Base, 4 inch, for Pump No. 503	28 00	
2521.	Cylinder Head (Front) for Pump No. 503	8 45	
2522.	Cylinder Head (Back) for Pump No. 503	11 25	
2523.	Side Arm (Right or Left) for Pump No. 503	4 20	
2524.	Crosshead for Pump No. 503	6 30	
2525.	Gland for Stuffing Box on Bulldozer Pump No. 503	2 15	
2526.	Box, Babbitted, 1½ inch Shaft on Bulldozer Pump No. 503	4 90	
2527.	Box, Babbitted, 1¼ inch Shaft on Bulldozer Pump No. 503	7 00	

Rep. No.		Price.	Complete.
2528.	Extension Bearing for 1¼ inch Shaft on Bulldozer Pump No. 503	$1 40	
2529.	Gear, Cut 72 Teeth, 6 D. P., 1½ inch Face, 5 inch Stroke for Bulldozer Pump No. 503	12 65	
2530.	Pinion, Cut 14 Teeth, 6 D. P., 1½ inch Face (Steel) for Bulldozer Pump No. 503	4 20	
2531.	Air Chamber, Flanged, for Bulldozer Pumps Nos. 352, 362 and 503	6 30	
2532.	Plunger Plate between Leathers, for Bulldozer Pump No.. 503	65	
2533.	Hose Nipple (90°) for 1¾ inch Hose on Low Down Pump	65	
2534.	Hose Nipple (45°) for 1¾ inch Hose on Low Down Pump	65	
2535.	Hose Nipple (30°) for 1¾ inch Hose on Low Down Pump	65	
2536.	Disk for Nozzles, Figs. 1563, 1564	05	
2537.	Disk for Nozzles, Figs. 1317, 1359	05	
2538.	Cylinder Body, 2½ inch, for Pumps Nos. 445, 446, 447, 448	38 00	
2539.	Bushing for 3 inch Brass Cylinder, inside attachment, Advance Well Pump used with No. 1774	1 05	
2540.	Cylinder Body and Base, 2 inch, for Pump No. R442	32 35	
2541.	Pinion, Cut 15 Teeth, 5 D. P., 2⅜ inch Face, 1½ inch Bore (Steel) for No. 364 Pump	9 10	
2542.	Crosshead Clamp for No. 364 Pump (Improved)	1 40	
2543.	Pinion Shield for No. 357 Pump (Improved)	1 05	
2544.	Yoke Bale Connection for Piston Rod for No. 357 Pump (Improved)	1 40	
2545.	Yoke Bale Wrist Pin Connection (Right) for No. 357 Pump (Improved)	2 15	
2546.	Yoke Bale Wrist Pin Connection (Left) for No. 357 Pump	2 15	
2547.	Support for Agitator Shaft on Inside of Spraying Tank	65	
2548.	Support for Chain Tightener on Spray Rig	1 40	
2549.	Cylinder Body and Base for Ashland Tank Pump (Replaces 1196)	9 85	
2550.	Hood for Repair No. 2549 for Ashland Tank Pump (Replaces 1209)	3 50	
2551.	Stuffing Box for Agitator Shaft on Spray Rig	2 15	
2552.	Gland for Stuffing Box No. 2551	1 40	
2553.	Wrench for Nos. 435 and 436 Duplex Pumps (abandoned)	65	
2554.	Shaft Hanger Bracket for Pump No. 364 (Improved)	5 60	
2555.	Hand Grip for Door on Senior Spray Rig	30	
2556.	Plunger Casting for Pump No. R442	1 40	
2557.	Eye for Plunger Casting Pump No. R442	55	
2558.	Sub-Base for Pumps Nos. 503 and 504M	21 00	
2559.	Sub-Base for Pumps Nos. 378, 379 and 387	11 25	
2560.	Pulley, 24 x 6 inch, for No. 364 Bulldozer Pump (Improved). Specify Tight or Loose	10 50	
2561.	Bracket for Agitator on Spray Rig	5 60	
2562.	Bevel Gear, 15 Teeth, for Spray Rig	1 40	
2563.	Bevel Gear, 40 Teeth, for Spray Rig	2 80	
2564.	Belt Wheel for Spray Rig	1 40	
2565.	Bracket for Agitator Shaft on Fig. 1571 Spray Pump	50	
2566.	Pulley, 3 inch, for Fig. 1558 Agitator	1 40	
2567.	Agitator Paddle, Iron, for Figs. 1557 and 1558	65	
2568.	Lever for Agitator Paddle on Pumps Nos. R316 and R317	65	
2569.	Support for Agitator Pulley for Spray Rig	1 40	
2570.	Gear, Cut 74 Teeth, 6 D. P., 1½ inch Face, 1⅛ inch Bore (Drive Gear)	9 85	
2571.	Gear, Cut 84 Teeth, 5 D. P., 1¾ inch Face, 1¼ inch Bore (Drive Gear)	12 65	
2572.	Sub-Base for Pump No. 352M	35 00	
2573.	Crosshead for Wood Side Arms on No. 366 Jack	1 05	
2574.	Base with Shaft Bearings for No. 366 Jack	5 60	
2575.	Cylinder Head (Rear) with Shaft Bearings for No. 363 Pump (Improved)	14 00	
2576.	Bearing Cap with Gear Shield for No. 363 Pump (Improved)	8 45	
2577.	Pulley, 12 inch Diameter x 2½ inch Face, for Nos. 366 and 425 Jacks	4 20	
2578.	Drop Check, for Pump No. R104 and 4 inch Cylinders	1 05	
2579.	Side Arm (Improved) for No. 363 Pump (Right or Left)	14 00	
2580.	Lever for Potato Sprayer	1 40	
2581.	Latch for Potato Sprayer	50	
2582.	Hand Grip to lift Latch for Potato Sprayer	40	
2583.	Segment and Pipe Support for Potato Sprayer	1 70	
2584.	Pipe Support for Potato Sprayer	1 05	
2585.	Strainer Casting with Cleaner Opening for Potato Sprayer	2 15	
2586.	Adjusting Clevis for Nozzle Support for Potato Sprayer	35	
2587.	Clamp for Hose for Potato Sprayer	30	
2588.	Strainer Support, Tapped both sides, ½ inch Pipe for Potato Sprayer	2 15	
2589.	Wheel with Iron Tread for Store Ladder	1 40	
2590.	Yoke for No. 364 Pump (Improved)	14 00	
2591.	Cap Washer for Crosshead Nos. 363 and 364 Pumps (Improved)	2 80	
2592.	Crosshead for No. 364 Pump (Improved)	8 45	
2593.	Side Arm for No. 364 Pump, Improved, Right and Left	9 85	
2594.	Bearing Cap for Gear Shaft on No. 363 Pump (Improved)	7 00	
2595.	Sub-Base for No. 480M Pump	11 25	
2596.	Crank Case (Lower Half) for No. 340½ Pump	14 00	
2597.	Crank Case (Upper Half) for No. 340½ Pump	14 00	
2598.	Cylinder Head, Cog Gear, for Pump No. R286A	4 20	
2599.	Rack for Pump No. R286A	1 40	
2600.	Cylinder Body for Pumps Nos. 378 and 379A (Improved)	23 90	
2601.	Crosshead for Pumps Nos. 378 and 379A (Improved)	5 60	
2602.	Cylinder Cap for Pumps Nos. 378 and 379A (Improved)	5 60	
2603.	Plunger Casting, Male, for Air Cylinder on No. 286A	1 05	
2604.	Plunger Casting, Female, for Air Cylinder on No. 286A	65	
2605.	Stuffing Box Gland for Repairs Nos. 2596 and 2597	2 15	
2606.	Rack for Defiance Pump No. R94	1 40	
2607.	Head for Defiance Pump No. R94	3 50	
2608.	Handle Cog Gear for Defiance Pump Nos. R94, R116, R117 and Pumps Nos. R230 and R233	2 45	
2609.	Oscillator for Defiance Pump No. R94	1 40	

Rep. No.		Price.	Complete.
2610.	Stand for Myers Electric House Pump	$25 30	
2611.	Base Pan for Myers Electric House Pump	5 60	
2612.	Cylinder Body for Myers Electric House Pump	8 45	
2613.	Piston Guide for Myers Electric House Pump	1 40	
2614.	Punger Cap and Stirrup for Myers Electric House Pump	3 50	
2615.	Pulley Wheel, 20 x 1½ inch, for Myers Electric House Pump	4 90	
2616.	Crank Shaft for Myers Electric House Pump	2 80	
2617.	Cylinder Body, 2½ inch B. L., 285A and R285A, Fig. 1612, with Seats	15 20	
2618.	Cylinder Body, 3 inch B. L., 286A and R286A, Fig. 1612, with Seats	15 20	
2619.	Side Arm Attachment (Right) for No. 425 Jack	2 15	
2620.	Side Arm Attachment (Left) for No. 425 Jack	2 15	
2621.	Crosshead for Flat Bail for No. 425 Jack	1 05	
2622.	Cylinder Cap, 4 inch, Upper (for Brass Lined or Polished)	2 15	
2623.	Cylinder Cap for No. 387 Pump (Improved)	5 60	
2624.	Stand for No. 344½ Pump (Improved) (abandoned)	8 45	
2625.	Roller Guide for No. 344½ Pump (Improved) (abandoned)	1 40	
2626.	Socket for Cut-off on No. 10 Grape Sprayer	35	
2627.	Cap for Hand Hole used on No. 2597 Crank Case	1 40	
2628.	Sprocket Wheel, 12 Teeth, Bored 1⅛ inch for Spray Rig	2 15	
2629.	Adjustable Base (Long Half) for Handy Spray Outfit	1 40	
2630.	Adjustable Base (Short Half) for Handy Spray Outfit	65	
2631.	Trunnion for Can for Handy Spray Outfit	65	
2632.	Cap, 2½ inch, Tapped 1¼ inch, goes with Repair No. 345 Cap for Foot Valve	1 05	
2633.	Cap, 3½ inch, Tapped 1½ inch, goes with Repair No. 346 for Foot Valve	1 10	
2634.	Cap, 4 inch, Tapped 2 inch, goes with Repair No. 374 for Foot Valve	1 40	
2635.	Hand Grip for Myers Peerless Bucket Spray No. 323	65	
2636.	Foot Rest (Malleable) for Myers Peerless Bucket Spray No. 323	65	
2637.	Clamp for Malleable Foot Rest No. 2636	30	
2638.	Base with Shaft Bearings for Myers Jack No. 425	6 30	
2639.	Crank Wheel, 5, 7½, 10 inch Stroke, for Myers Jack No. 425	4 90	
2640.	Base, Improved, for 3 inch House Pump, Set Length House Pumps only	2 15	
2641.	Base, Improved, for 3½ inch House Pump, Set Length House Pumps only	2 80	
2642.	Sprocket Wheel, Light, 16 Teeth, Bore 1¼ inch, for Spray Rig	2 15	
2643.	Sprocket Wheel, Light, 16 Teeth, Bore 1⅛ inch, for Spray Rig	2 15	
2644.	Sprocket Wheel, 12 Teeth, Bore 13/16 inch for Spray Rig	2 15	
2645.	Sleeve (Steel) for Stirrup for Myers Electric Pump	1 40	
2646.	Idler Pulley for Myers Electric Pump	2 80	
2647.	Plunger Casting for Air Cylinder for Myers Electric Pump	1 40	
2648.	Sub-Base, 4 inch Pipe Size, for Well Pumps	2 80	
2650.	Sub-Base for No. 436 Pump and 1½ H. P. Engine (Special—foreign)	16 85	
2651.	Base with Shaft Bearings for No. 400 Jack	5 60	
2652.	Gear, Cut 60 Teeth, 6 D. P., 1⅜ inch Face, 1⅛ inch Bore, 4 and 6 inch Stroke for Jack No. 400.	9 10	
2653.	Crosshead for Pumps Nos. 439 and 456	2 80	
2654.	Cylinder Body and Base for No. 363 Pump, Brass Lined	112 50	
2655.	Cap for Air Cylinder for Pump No. 388A	1 40	
2656.	Cylinder and Base, Brass Lined, Less Seats, for Grid Seat, Pump No. 456	12 65	
2657.	Cap and Valve Seat for 3 inch B. L. House Pumps	1 70	
2658.	Cap and Valve Seat for 3½ inch B. L. House Pumps	2 15	
2659.	Side Frame (Right or Left) for Pump No. 391	25 30	
2660.	Bearing Cap (Right) for Pump No. 391	4 90	
2661.	Bearing Cap (Left) for Pump No. 391	4 90	
2662.	Gear, Cut 84 Teeth, 5 D. P., 1½ inch Face, 10, 12, 14 inch Stroke for Pump No. 391	18 30	
2663.	Discharge Yoke on Tee for Pump No. 391	11 25	
2664.	Clamp for No. 2663 for Pump No. 391	1 40	
2665.	Stuffing Box Cap for No. 2663 on Pump No. 391	2 80	
2666.	Side Arm (Right or Left) for Pump No. 391	4 90	
2667.	Crosshead (Long Half) for Pump No. 391	9 10	
2668.	Crosshead (Short Half) for Pump No. 391	4 20	
2669.	Pinion, Cut 12 Teeth, 5 D. P., 1¼ inch Bore, for Pump No. 391	3 80	
2670.	Pulley, 16 x 3 x 1¼ inch Bore, Tight or Loose Pulley, state which, for Pumps Nos. 391 and 503.	5 30	
2671.	Fulcrum Head for House Pumps (Improved) Nos. R220, R222, 416 to 419, R416 to R419.	1 40	
2672.	Handle, Cog Gear, for House Pumps Nos. R220, R222, R410 to R413	1 40	
2673.	Piston Segment for House Pumps Nos. R220, R222, R416 to R419	1 05	
2674.	Connecting Link and Cover (Right) for House Pumps Nos. R249 to R253, R220, R248½, R416 to R419.	55	
2675.	Connecting Link and Cover (Left) for House Pumps Nos. R220, R248½, R249 to R253, R416 to R419.	55	
2676.	Fulcrum or Top for Pumps Nos. R251, R253	1 40	
2677.	Handle Cog Gear for Pumps Nos. R251, R253	1 40	
2678.	Segment Plunger Link for Pumps Nos. R251, R253 (abandoned) for R249, R250	1 05	
2679.	Top Cap for Pumps Nos. R296, R297, R410, R411, R412, R413	2 15	
2680.	Connecting Link and Cover (Right) for Pumps Nos. R296, R297, R410, R411, R412, R413.	55	
2681.	Connecting Link and Cover (Left) for Pumps Nos. R296, R297, R410, R411, R412, R413.	55	
2682.	Oscillator Link and Handle Support for Pumps Nos. R296, R297, R410, R411, R412, R413.	65	
2683.	Handle Cog Gear for Pumps Nos. R296, R297, R410, R411, R412, R413	1 70	
2684.	Handle (Plain) for House Pumps Nos. 416, 418	1 40	
2685.	Cylinder Body, Polished, 3 inch, for House Pumps Nos. 416, R416, R417. Polished, $3.15; Brass Lined	4 90	

Rep. No.		Price.	Complete.
2686.	Cylinder Body, Polished, 3½ inch, for House Pumps Nos. 418, 419, R418, R419. Polished, $3 80; Brass Lined	$5 60	
2687.	Cylinder Body, Polished, 3 inch, for House Pumps Nos. R410, R411. Polished, $3 50; Brass Lined.	5 30	
2688.	Cylinder Body, Polished, 3½ inch, for House Pumps Nos. R412, R413. Polished, $4 20; Brass Lined.	5 95	
2689.	Base for House Pumps Nos. R410, R411, R416, 416, R417 (Iron Seat)	2 15	
2690.	Pulley (Special), 24 x 2½ x 1⅛ inch Bore for Belt Drive Pumps Nos. 445, 501 and 502.	7 00	
2691.	Rack for ½ inch Rod on Pumps Nos. R245, R246½, R247, R248½, R249, R250, R251, R253, R410, R411, R412, R413	1 05	
2692.	Base with Bearings for Senior Triumph Jack No. 403	16 85	
2693.	Bushing for 1¼ inch Plunger Tube on Myers and Defiance Pump Stands	1 40	
2694.	Follower Rings for 1¼ inch Plunger on Myers and Defiance Pump Stands	15	
2695.	Plunger Nut for 1¼ inch Plunger on Myers and Defiance Pump Stands	35	
2696.	Base for House Pumps, 3½ inch (Iron Seat), R412, R413, 418, R418, R419	2 45	
2697.	Attachment for Wrist Pin on Jack No. 400	1 40	
2698.	Attachment for Pitman Connection on Jack No. 400	1 05	
2699.	Handle Clamp (Right), for Jack No. 400	35	
2700.	Wrist Pin (Steel), 1 inch Diameter, for Jacks Nos. 366 and 400	1 05	
2701.	Shield for Pinion for Jack No. 400	1 05	
2702.	Shield for Pinion for Jack No. 403	1 05	
2703.	Crank Shaft for Pumps Nos. 340½, 341½, 344½, 345½	6 30	
2704.	Crosshead, Improved, for Nos. 501 and 502 Pumps	5 60	
2705.	Crosshead, Improved, for No. 500 Pumps	6 30	
2706.	Crosshead, Improved, for No. 504 Pumps	7 00	
2707.	Cap, Upper, 5½ inch Brass Cylinder, Inside Attachment, Tapped 3 inch	4 20	
2708.	Cap, Lower, 5½ inch Brass Cylinder, Inside Attachment, Brass Seat, Tapped 3 inch	8 45	
2709.	Follower, 5½ inch, for F Plunger, Single Leather............Brass, $5 30; Iron,	3 15	
2710.	Follower, 5½ inch, for F Plunger, Double Leather............Brass, $9 85; Iron,	4 50	
2711.	Clamp for Repair No. 2699 for Pump Jack No. 400	35	
2712.	Crosshead for Pump Jack No. 426	1 40	
2713.	Clamp for Repair No. 2712 for Pump Jack No. 426	65	
2714.	Base (Right) with Shaft Bearings for Pump Jack No. 426	4 20	
2715.	Base (Left) with Shaft Bearings for Pump Jack No. 426	4 20	
2716.	Swivel Casting for Crosshead for Pump Jack No. 426	85	
2717.	Base with Brass Seat, 3 inch House and Pitcher Pumps (abandoned)	2 15	
2718.	Head, Cylinder, for Gears for Pump No. 580	8 45	
2719.	Crank Wheel, 4 inch Stroke for Pump No. 580	4 90	
2720.	Sub-Base for Gas Engine and Pump No. 502	14 00	
2721.	Gear, 65 Teeth (Cut Teeth), 8 D. P., 1¼ inch Face, 1⅛ inch Bore, for Pump No. 580	9 85	
2722.	Pinion, Stroke, 13 Teeth (Cut Teeth), 8 D. P., 1¼ inch Face, ⅞ inch Bore, for Pump No. 580.	3 15	
2723.	Follower for Plunger, 3 inch, Pumps Nos. 451, R451	1 40	
2724.	Follower for Plunger, 3½ inch, Pumps Nos. 452, R452	1 40	
2725.	Side Arm (Right) for Pump No. 580	4 20	
2726.	Side Arm (Left) for Pump No. 580	3 80	
2727.	Base with Brass Seat, 3½ inch, House and Pitcher Pumps (abandoned)	2 45	
2728.	Gear, 65 Teeth (Cut Teeth), 5 D. P., 1½ inch Face, 1½ inch Bore, 5, 7, 10½ inch Stroke for Pump Jack No. 425	11 25	
2729.	Pinion, Stroke, 13 Teeth (Cut Teeth), 1½ inch Face, 1¼ inch Bore for Pump Jack No. 425.	3 50	
2730.	Cap, Upper, 5½ inch Brass Cylinder, Outside Attachment, Tapped 3 inch	4 20	
2731.	Cap, Lower, 5½ inch Brass Cylinder, Outside Attachment, Brass Seat, Tapped 3 inch	8 45	
2732.	Packing Gland for Agitator Rod on Tank, for Spraying Outfit No. 15	55	
2733.	Base (Right or Left) for Hay Tool Display Stand	1 40	
2734.	Pulley, 3 inch Diameter, 2 inch Face for Belt Tightener, Pumps Nos. 378AB, 379AB and 485.	3 50	
2735.	Pressure Controller, Upper Half for Spray Pump No. 450 (abandoned)	8 45	
2736.	Pressure Controller, Lower Half, for Spray Pump No. 450 (abandoned)	8 45	
2737.	Bearing Cap for Repair No. 2735	2 15	
2738.	Crank Shaft for Spray Pump No. 450 (abandoned)	12 65	
2739.	Plunger Stem for Spray Pump No. 450 (abandoned)	3 50	
2740.	Bracket (Right) for Spray Pump No. 450 (abandoned)	14 75	
2741.	Bracket (Left) for Spray Pump No. 450 (abandoned)	14 75	
2742.	Crosshead (Long Half) for Working Head No. 391A	10 50	
2743.	Head, Fulcrum (Cog Gear) for Spray Pumps Nos. R336B, R337B	2 15	
2744.	Handle (Cog Gear) for Spray Pumps Nos. R336B, R337B	1 70	
2745.	Link for Piston Rod for Spray Pumps Nos. R336B, R337B	55	
2746.	Discharge Yoke or Tee for Working Head No. 391A	18 25	
2747.	Clamp for Repair No. 2746	1 40	
2748.	Packing Gland for Air Cylinder for Working Head No. 391A	1 05	
2749.	Stand and Jug Combined for Pump Stand No. R92½	8 45	
2750.	Stuffing Box for Repair No. 2749	1 70	
2751.	Head (Malleable), Plain and Cog Gear for Pump Stand No. R92½	3 50	
2752.	Gear, Drive, 100 Teeth (Cut Teeth), 6 D. P., 1¾ inch Face, 1¼ inch Bore	12 65	
2753.	Plunger Guide for Spray Pump No. 450 (abandoned)	3 50	
2754.	Yoke for Dasher Agitator for Spray Pumps Nos. R336B, R337B	1 05	
2755.	Cap, Lower, Flanged, 2½ inch, Glass Seat, Tapped 1½ inch for Cylinder, Fig. 1702	1 70	
2756.	Cap, Upper, Flanged, 2½ inch, Tapped 1½ inch for Cylinder, Fig. 1702	1 05	
2757.	Cylinder Shell, 2½ x 12 inches, Brass Lined, for Cylinder, Fig. 1702	4 45	
2758.	Cap, Lower, Flanged, 3 inch, Glass Seat, Tapped 1½ inch for Cylinder, Fig. 1702	2 15	
2759.	Cap, Upper, Flanged, 3 inch, Tapped 1½ inch, for Cylinder, Fig. 1702	1 40	

Rep. No.		Price.	Complete.
2760.	Cylinder Shell, 3 x 12 inch, Brass Lined, for Cylinder, Fig. 1702	$4 60	
2761.	Cap, Lower, Flanged 3½ inch, Glass Seat, Tapped 1½ inch, for Cylinder, Fig. 1702	2 45	
2762.	Cap, Upper, Flanged, 3½ inch, Tapped 1½ inch for Cylinder, Fig. 1702	1 70	
2763.	Cylinder Shell, 3½ x 16 inch, Brass Lined, for Cylinder, Fig. 1702	6 30	
2764.	Cap, Lower, Flanged, 4 inch, Glass Seat, Tapped 2 inch, for Cylinder, Fig. 1702	3 15	
2765.	Cap, Upper, Flanged, 4 inch, Tapped 2 inch, for Cylinder, Fig. 1702	2 15	
2766.	Cylinder Shell, 4 x 16 inch, Brass Lined, for Cylinder, Fig. 1702	7 85	
2767.	Handle, Cog Gear (Malleable), for Pump Stand No. R94	3 15	
2768.	Pulley, 12 inch Diameter, 3 inch Face, 1⅛ inch Bore for Pump Jack No. 426	4 20	
2769.	Pulley, 4½ inch Diameter, 3 inch Face, for Belt Tightener, for Spray Outfit No. 15 (abandoned)	2 80	
2770.	Connecting Link and Cover over Handle (Right) for Spray Pumps Nos. R336B and R337B	65	
2771.	Connecting Link and Cover over Handle (Left) for Spray Pumps Nos. R336B and R337B	65	
2772.	Top Shelf for Exhibition Pump Rack, Fig. 1628	7 00	
2773.	Bottom Shelf Exhibition Pump Rack, Fig. 1628	4 90	
2774.	Base for Exhibition Pump Rack, Fig. 1628	4 90	
2775.	Handle (Malleable), 6, 8, 10 inch Stroke, Wheeler Head	2 80	
2776.	Pulley, 14 inch Diameter, 2½ inch Face, ⅞ inch Bore for Pump No. 580	4 50	
2777.	Plug for Spring on Pressure Controller (Upper), for Pump No. 450 (abandoned)	55	
2778.	Plug for Spring on Pressure Controller (Lower) for Pump No. 450 (abandoned)	1 05	
2779.	Cylinder Shell, 2½ x 16 inch, Brass Lined, for Cylinder, Fig. 1702	5 40	
2780.	Cylinder Shell, 3 x 16 inch, Brass Lined, for Cylinder, Fig. 1702	5 90	
2781.	Clamp for Exhibition Pump Rack, Fig. 1628	35	
2782.	Collar for Exhibition Pump Rack, Fig. 1628	1 40	
2783.	Crosshead for California Working Head (Replaces Repair No. 1547)	3 50	
2784.	Crosshead for California Working Head (Replaces Repair No. 217)	2 80	
2785.	Lever (Right), for Agitator, for Pumps Nos. 305, R318	65	
2786.	Lever (Left), for Agitator, for Pumps Nos. 305, R318	65	
2787.	Agitator Connection to Piston Rod Pumps Nos. 305, R318	35	
2788.	Plunger Ring, 3 inch, Iron	15	
2789.	Sub-Base for Motor and Pumps Nos. 378A, 379A and 387	16 85	
2790.	Cylinder Body for Pump No. 505	31 00	
2791.	Head, Cylinder, for Gears, with Shaft Bearings for Pump No. 505	12 65	
2792.	Head, Cylinder, for Guide Rods for Pump No. 505	9 75	
2793.	Bearing Cap for 1¼ inch Pulley Shaft for Pump No. 505	8 45	
2794.	Crank Shaft for Electric House Pump No. 485	2 80	
2795	Cap, Lower, Flanged, 3 inch, Glass Seat, Tapped 1¼ inch, for Cylinder, Fig. 1702	2 15	
2796.	Cap, Upper, Flanged, 3 inch, Tapped 1¼ inch for Cylinder, Fig. 1702	1 40	
2797.	Cap, Lower, Flanged, 3½ inch, Glass Seat, Tapped 2 inch, for Cylinder, Fig. 1702	2 45	
2798.	Cap, Upper, Flanged, 3½ inch, Tapped 2 inch, for Cylinder, Fig. 1702	1 70	
2799.	Sub-Base for Gas Engine and Pumps Nos. 503, 505	28 00	
2800.	Cylinder Body (1¾ inch), for Electric House Pump No. 485	9 85	
2801.	Stand with Brass Bushing for Electric House Pump No. 485	28 00	
2802.	Plunger Cap and Stirrup for Electric House Pump No. 485	3 50	
2803.	Air Chamber for Electric House Pump No. 485	2 80	
2804.	Cap over Valves for Pump No. 505	1 70	
2805.	Base with Brass Seat for Pumps Nos. 416, 417, R410, R411, R416, R417 (Replaces No. 2689)	2 15	
2806.	Crosshead or Support for Air Cylinder, for Pump No. 503	6 30	
2807.	Sub-Base for Pumps Nos. 500 and 500M	16 75	
2808.	Wrench for Valve Caps for Pumps Nos. 443, 500 and 500A	1 05	
2809.	Base for Back Geared Countershaft No. 407	7 00	
2810.	Gear, 72 Teeth (Cut Teeth), 6 D. P., 1⅜ inch Face, 1¼ inch Bore, Adjustable Stroke, for Back Geared Countershaft No. 407	9 85	
2811.	Foot Rest (Malleable), for Spray Pump No. R324	65	
2812.	Clamp for Repair No. 2811	35	
2813.	Handle, Cog Gear, (Malleable) for Spray Pump No. R324	65	
2814.	Rack for Spray Pump No. R324	35	
2815.	Head and Cap for Air Chamber for Spray Pump No. R324	65	
2816.	Shield Link (Right), for Spray Pump No. R324	30	
2817.	Shield Link (Left) for Spray Pump No. R324	30	
2818.	Eye for Piston Rod for Spray Pump No. R324	30	
2819.	Strainer Casting (Upper Half), for 2 inch Mud Strainer	40	
2820.	Strainer Casting (Lower Half), for 2 inch Mud Strainer	40	
2821.	Foot Valve (Upper Half), Tapped 1 inch, for Fig. 422	1 05	
2822.	Pulley, 24 inch Diameter, 2 inch Face, 1 inch Bore for Pump No. 485	7 05	
2823.	Support for Idler Pulley, for Electric House Pump No. 485	1 75	
2824.	Frame for Idler Pulley for Electric House Pump No. 485	3 50	
2825.	Ider Pulley, 3 inch Diameter, 2¼ inch Face for Electric House Pump No. 485	2 80	
2827.	Rack for Improved Pumps Nos. R1, R4, R5, R6, R7, R8, R12, R14, R16, R18	1 05	
2828.	Handle for Improved Pumps Nos. R1, R8	2 15	
2831.	Crosshead for Pump No. 505	7 70	
2832.	Air Chamber for Pump No. 505	7 00	
2833.	Side Arm (Right or Left) for Pump No. 505	4 90	
2834.	Base with Brass Seat, 3½ inch, for Pumps Nos. 418, 419, R412, R413, R418, R419 (Replaces No. 2696)	2 45	
2835.	Connecting Link and Cover over Handle (Right), for Pumps Nos. R1, R4, R5, R6, R7, R8, R4½, R5½, R6½, R7½, R12, R14, R16, R18	65	
2836.	Connecting Link and Cover over Handle (Left), for Pumps Nos. R1, R4, R5, R6, R7, R8, R4½, R5½, R6½, R7½, R12, R14, R16, R18	65	
2837.	Frame for Idler Pulley for Pumps Nos. 378AB, 379AB, 387	3 90	
2838.	Cylinder Shell, 2½ x 18 inch, Brass Lined, for Cylinder, Fig. 1702	5 90	
2839.	Cylinder Shell, 4 x 20 inch, Brass Lined, for Cylinder, Fig. 1702	9 10	

Rep. No.		Price.	Complete.
2840.	Lid for Oil Box, Repairs Nos. 2833. 2840	$0 35	
2844.	Base (Left), for Pump Jack No. 428	4 90	
2845.	Base (Right), for Pump Jack No. 428	4 90	
2846.	Pressure Controller (Lower Half), for Pumps Nos. 450 and 460	5 60	
2847.	Pressure Controller (Upper Half), for Pumps Nos. 449 and 450	5 60	
2848.	Bearing Cap for Repair No. 2847	2 15	
2849.	Bracket (Right), for Pumps Nos. 449 and 450	14 75	
2850.	Bracket (Left), for Pumps Nos. 449 and 450	14 75	
2851.	Spring Support for Pumps Nos. 449, 450, 460	1 40	
2852.	Spring Adjuster and Support for Pumps Nos. 449, 450 and 460	1 40	
2853.	Lock Nut for Spring Rod for Pumps Nos. 449, 450 and 460	35	
2854.	Plunger Stem for Pumps Nos. 450 and 460	3 50	
2855.	Plunger Stem for Pump No. 449	3 50	
2856.	Plunger Guide for Pumps Nos. 449 and 450	3 50	
2857.	Cylinder Body for Pump No. 449	35 00	
2858.	Pressure Controller (Lower Half) for Pump No. 449	5 60	
2859.	Speed Gear, 120 Teeth (Cut Teeth), 4 D. P., 3 inch Face, 2 inch Bore for Working Heads Nos. 382 and 382½	70 50	
2860.	Sub-Base for Working Heads Nos. 382 and 382½	105 50	
2861.	Plunger Plate for Spray Pump No. R324	15	
2862.	Piston Guide (Right or Left), for Pumps Nos. 290, 291, 292, 293	65	
2864.	Sprocket Wheel, 12 Teeth, 1⅛ inch Bore, for Pumps Nos. 449, 450	2 15	
2865.	Cylinder Body for Pump No. 474	12 65	
2866.	Cap, Upper, 7 inch, Brass Cylinder, Inside Attachment, Tapped 4 inch	6 30	
2867.	Cap, Lower, 7 inch, Brass Cylinder, Inside Attachment, Brass Seat, Tapped 4 inch	11 25	
2868.	Hinge with Guard for Faultless Barn Door Hanger No. 20	35	
2869.	Adjusting Bolt for Trolley for Faultless Barn Door Hanger No. 20	50	
2870.	Main Frame for Belt Tightener for Power Spray Pumps	2 15	
2871.	Hinge with Pin for Idler Pulley for Belt Tightener, Power Spray Pumps	2 15	
2872.	Hinge Fulcrum for Belt Tightener for Power Spray Pumps	65	
2873.	Hinge Spring Adjuster for Belt Tightener for Power Spray Pumps	40	
2874.	Pipe Plug, 2½ inch, for Side Outlet on Cylinder, for Pump No. 505	1 40	
2875.	Cylinder Body for Pump No. 460	57 00	
2876.	Crank Shaft (Cast Steel), for Pump No. 460	19 00	
2877.	Check Valve Seat on Discharge Line for Working Head No. 388A	1 70	
2878.	Check Valve Cap for Repair No. 2877	1 40	
2879.	Gear, Stroke (Cut Teeth), 70 Teeth, 6 D. P., 2 inch Face for Pump No. 460	12 65	
2880.	Bracket (Right), for Pump No. 460	21 00	
2881.	Bracket (Left), for Pump No. 460	21 00	
2882.	Pressure Controller (Upper Half) for Pump No. 460	8 45	
2883.	Shields Over Pinion for Pump No. 460	1 40	
2884.	Bearing Cap for Crank Shaft for Pump No. 460	3 50	
2885.	Plunger Guide for Pump No. 460	7 00	
2886.	Bearing Cap for Pulley and Pinion Shaft for Pump No. 460	3 15	
2887.	Bearing Cap for Repair No. 2882	2 45	
2888.	Sprocket Wheel, 16 Teeth, ¾ inch Bore for Agitator Shaft, Pump No. 460	2 15	
2889.	Pulley, 14 inch Diameter, 3 inch Face, 1⅛ inch Bore for Pump No. 450	4 90	
2890.	Cap over Valves for Pump No. 485	1 40	
2893.	Plug, 1¼ inch, for Repair No. 1717	20	
2894.	Cap, Tapped for Air Valve for Air Cylinder on Pumps Nos. 343, 501, 502 (Replaces No. 1983)	1 40	
2895.	Base or Frame with Bearings for Pump Jack No. 405	35 00	
2896.	Base with Shaft Bearings for Working Head No. 388M	16 85	
2897.	Piston Arm for Wrist Pin for Pump Jack No. 405	3 50	
2898.	Shield for Pinion for Pump Jack No. 405	2 15	
2899.	Cylinder Body for Tank Pump No. R472, Polished (In ordering state whether Brass Lined or Polished)	8 45	
2899.	Cylinder Body for Tank Pump No. R472, Brass Lined. (In ordering state whether Brass Lined or Polished)	12 30	
2900.	Head, Fulcrum (Plain and Cog Gear) for Improved Pump Stands Nos. 98, 99, 112, 116, 117, R98, R99, R112, R116 and R117)	3 50	
2901.	Head, Fulcrum (Plain and Cog Gear) for Improved Pumps Nos. 230, 232, 233, 234, R230, R232, R233, R234	4 20	
2902.	Head, Fulcrum (Plain and Cog Gear) for Improved Pumps Nos. 225, 226, 227, 228, R225, R226, R227, R228	4 20	
2903.	Head, Fulcrum (Plain Top) for Improved Pumps Nos. R1, R4, R5, R6, R7, R8, R4½, R5½, R6½, R7½, R12, R14, R16, R18	2 80	
2905.	Head, Fulcrum (Wind Top) for Improved Pumps Nos. 1, 4, 5, 6, 7, 8, 4½, 5½, 6½, 7½, 12. 14, 16, 18, R1, R4, R5, R6, R7, R8, R4½, R5½, R6½, R7½, R12, R14, R16, R18, 225, 227, R225, R227	3 50	
2908.	Projection (Vertical Three-Way), 1½ inch Pipe for Improved Pumps and Working Heads Nos. 230, 232, 233, 234, R230, R232, R233, R234, 240, 242, 276, 386, 389.	4 90	
2909.	Bushing for 1 inch Plunger Tube (abandoned)	1 00	
2910.	Flange for Stuffing Box Nut, Repair No. 2908	1 40	
2911.	Union Ring for Underground Three-Way	40	
2912.	Elbow and Seat (Malleable), 1½ inch Pipe Thread, for Underground Three-way	1 70	
2913.	Elbow and Seat, 1¼ inch Pipe Thread, for Underground Three-way	1 55	
2914.	Rack for Improved Pumps Nos. R225, R227, R230, R232, R233, R234	1 40	
2915.	Side Frame with Bearings (Right or Left) for Working Head No. 392	35 00	
2916.	Gear (Right or Left), 114 Teeth (Cut Teeth), 5 D. P., 1½ inch Face, 1½ inch Bore for Working Head No. 392	35 00	
2917.	Side Arm (Right or Left) for Working Head No. 392	6 30	
2918.	Bearing Cap (Right) with Gear Shield for Working Head No. 392	4 90	
2919.	Bearing Cap (Left) with Gear Shield for Working Head No. 392	4 90	
2920.	Cap, Upper, 2½ inch, Tapped 1¼ inch for Brass Lined Cylinder, Fig. 1702	1 05	

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Rep. No.		Price.	Complete.
2921.	Cap, Lower, 2½ inch, Tapped 1¼ inch Glass Seat, for Brass Lined Cylinder, Fig. 1702.	$1 70	
2922.	Sub-Base for Pump No. 485 A M B and Tank	14 00	
2923.	Air Chamber with Stuffing Box for 3 inch Bracket Cylinder	2 45	
2927.	Handle (Cog Gear) for Pumps Nos. R1 and R8	2 80	
2928.	Link (Oscillating) for Heads Nos. 2903 and 2905 (Cog Gear Pumps)	85	
2929.	Oscillator for Improved Plain Pump Stands Nos. 112, 116, 117	85	
2930.	Oscillator for Improved Cog Gear Pump Stands Nos. R98, R99, R116, R117	85	
2931.	Rack for Pump Stands Nos. R98, R99, R112, R116, R117	1 40	
2932.	Cap, Upper, with Stuffing Box for Air Chamber on Working Heads Nos. 277 and and 359 (Replaces No. 1141)	8 45	
2933.	Cap for 1¼ inch Plunger Tube, used with Repair No. 2908	1 05	
2934.	Follower Ring for 1¼ inch Plunger	50	
2935.	Flange, 3 inch, for Projection No. 2908	1 40	
2936.	Base for Tank Pump No. R472	1 40	
2937.	Frame with Bearings for Pump Jack No. 430	6 30	
2938.	Coupling Cap, Lower, Tapped 2 inch, for 3½ inch Perfect Artesian Well Cylinder	6 30	
2939.	Coupling Cap, Lower, Tapped 2 inch, for 4 inch Perfect Artesian Well Cylinder	7 70	
2940.	Coupling Cap, Lower, Tapped 3 inch, for 6 inch Perfect Artesian Well Cylinder	14 00	
2941.	Base with Bearings for Myers Dairy Pump Jack	6 30	
2942.	Gear, 96 Teeth (Cut Teeth), 6 D. P., 1 inch Bore, 1⅜ inch Face for Myers Dairy Pump Jack	11 90	
2943.	Collar for 1 inch Shaft for Myers Dairy Pump Jack	55	
2944.	Link, Oscillating, for Fulcrum Head No. 2905 (Plain Wind Top Pumps only)	65	
2945.	Bearing Cap for Repair No. 2847 (Replaces No. 2848)	2 15	
2946.	Pressure Controller (Upper Half) for Pumps 449-450 (Replaces No. 2847)	5 60	
2947.	Base (One-half) Right, for Pumps Nos. 225, 226, 227, 228, R225, R226, R227, R228	1 05	
2948.	Base (One-half) Left, for Pumps Nos. 225, 226, 227, 228, R225, R226, R227, R228	1 05	
2949.	Lid for Oil Box for Repairs No. 2947-2948	50	
2950.	Yoke for Set Length Working Heads Nos. 391-392	11 25	
2951.	Clamp for Tank on Sub-base No. 2922	40	
2952.	Projection for Stuffing Box on Pumps, Figs. 1760-61-62-63 like Nos. 259 U. S. Standard Thread 2½ inches	3 90	
2953.	Cap for 1¼ inch Cylinder Tube for Figs. 1760-61-62-63	1 05	
2954.	Stuffing Box Cap U. S. S. Thread for Figs. 1760-61-62-63	1 05	
2955.	Crank Extension for 15 inch Stroke on No. 400 Pump Jack	2 15	
2956.	Rack for No. R286 Pump (Replaces No. 2146)	1 05	
2957.	Eye for Piston Rod for Nos. 285-286 Pumps (Replaces No. 2147)	65	
2958.	Rack for No. R286A Pump (Replaces No. 2599)	1 40	
2959.	Hasp for Garage Door Hanger	40	
2960.	Cap, Upper, 5½ inch Brass Cylinder, Inside Attachment, Tapped 4 inch	4 20	
2961.	Cap, Lower, 5½ inch Brass Cylinder, Inside Attachment, Tapped 4 inch, Brass Seat	8 45	
2962.	Base (One-half) Right or Left (Replaces No. C100)	1 05	
2963.	Rack for Pumps Figs. 1163-1164-1169-1170-1633-1634	1 40	
2964.	Guide for 13/16 inch Piston Rod for New Style Figs. 1164-1170-1633-1634	40	
2965.	Piston Guide for Repairs No. 2950 for Set Length Working Heads Nos. 391-392	1 05	
2966.	Agitator Paddle Complete for Sprayng Outfit No. 15	1 40	
2967.	Cylinder Body for Pump No. 459	52 35	
2968.	Plunger Guide for Pump No. 459	6 30	
2969.	Hinge for Plain Hasp for Faultless Hanger	35	
2970.	Valve Weight, 3 inch (Tilt) for House and Pitcher Spout Pumps	20	
2971.	Valve Weight, 3½ inch (Tilt) for House and Pitcher Spout Pumps	20	
2972.	Flange for Stuffing Box Nut, 13/16 inch, for Repair No. 2908	1 40	
2973.	Cap for 1¾ inch and 2 1/16 inch Plunger Tube used on Repair No. 2908	1 05	
2974.	Collar for 2 inch Shaft for Countershafts Nos. 348-349	1 40	
2975.	Collar for 2 inch Gear Shaft for Pumping Jack No. 405	1 40	
2976.	Wheel, for Track—Myers Lawn Swing	55	
2977.	Handle Socket for Pump No. 377A	2 15	
2978.	Flanged Elbow Fitting for Bottom of Spray Tank (1 inch) with Lock Nut	2 80	
2979.	Stuffing Box for No. 505 Stub Pump, High Duty	3 50	
2980.	Head (Right Half), with Bushing, for Pump Stand No. R94 (Replaces 2607)	1 70	
2981.	Head (Left Hand) for Pump Stand No. R94, used with No. 2980	1 70	
2982.	Cylinder Body and Crank Case for Electric House Pump No. 600	19 00	
2983.	Cap for Crank Case for Electric House Pump No. 600	95	
2984.	Eccentric for 2 inch Stroke for Electric House Pump No. 600	2 80	
2985.	Elbow (Street) ⅜ x ¼ Pipe for Electric House Pump No. 600	65	
2986.	Cap over Valves for Electric House Pump No. 600	65	
2987.	Cylinder Cap with Stuff Box for Electric House Pump No. 600	1 40	
2988.	Cylinder Cap (Rear) for Electric House Pump No. 600	95	
2990.	Shaft Bearing (Right) for Electric House Pump No. 600	1 10	
2991.	Shaft Bearing (Left) for Electric House Pump No. 600	1 10	
2992.	Air Chamber for Electric House Pump No. 600	1 95	
2993.	Pump Base and Motor Support for Electric House Pump No. 600	11 25	
2994.	Pump Base and Motor Support for Large Motor	12 20	
2995.	Arm for Belt Tightener Pulley for Electric House Pump No. 600	95	
2996.	Pulley, 20 x 1½, for Electric House Pump No. 600	4 20	
2997.	Vacuum Suction Chamber for Electric House Pump No. 600	3 35	
2998.	Handle Socket for No. 464 Double Handle Pump	1 70	
2999.	Oscillator Link for No. 464 Double Handle Pump	1 40	
3000.	Gear and Eccentric Case for Pump No. 613	21 00	
3001.	Lid for Eccentric Case for Pump No. 613	4 20	
3002.	Gear and Eccentric for Pump No. 613	16 85	
3003.	Connecting Link for Pump No. 613—with Bushing	7 00	
3004.	Crosshead for Pump No. 613	3 15	
3005.	Retaining Ring for Connecting Rod for Pump No. 613	1 40	
3006.	Bearing for Gear Shaft for Pump No. 613	1 70	

Rep. No.		Price.	Com. plete.
3007.	Bearing for Pinion Shaft (Short) for Pump No. 613	$1 70	
3008.	Bearing for Pinion Shaft (Long) for Pump No. 613	1 40	
3009.	Cylinder Body, 3 x 4 inch (abandoned), for Pump No. 613 (New 3016)	14 00	
3010.	Cylinder Head (Front with Stuff Box), for Pump No. 613	4 20	
3011.	Cylinder Head (Rear, Plain), for Pump No. 613	2 80	
3012.	Stuffing Box Nut for Pump No. 613	1 40	
3013.	Bucket Plate, 3 inch (Inner), for Pump No. 613	30	
3014.	Bucket Plate, 3 inch (Between Leathers), for Pump No. 613	55	
3015.	Air Chamber, Size 1½ inch Pipe	4 90	
3016.	Cyl. Body for 3 inch Self Oiling Pump No. 613 (Replaces Rep. 3009)	14 00	
3017.	Valve Cap for 3 inch Self Oiling Pump No. 613	1 40	
3018.	Air Chamber for 3 inch Self Oiling Pump No. 613	5 60	
3019.	Cap, Lower, for Fig. 1203, Cyl. Tapped 2 inch	6 30	
3020.	Cap, Lower, for Fig. 1203, Cyl. Tapped 2½ inch	7 00	
3021.	Head (Agar Cross Special) for 3 inch Pipe	7 00	
3022.	Cylinder Body, 4 x 5 for Pump No. 614 (abandoned) New 3076	21 00	
3023.	Air Chamber, 2 inch Pipe	6 30	
3024.	Gear and Eccentric Case for Pumps Nos. 614 and 615	31 60	
3025.	Lid for Eccentric Case for Pumps Nos. 614 and 615	6 30	
3026.	Gear for Eccentric for Pumps Nos. 614 and 615	23 90	
3027.	Connecting Link for Pumps Nos. 614 and 615, with Bushing	10 50	
3028.	Cross Head for Pumps Nos. 614 and 615	4 20	
3029.	Retaining Ring for Eccentric for Pumps Nos. 614 and 615	1 75	
3030.	Bearing for Pinion Shaft (Short) for Pumps Nos. 614 and 615	2 15	
3031.	Bearing for Gear Shaft for Pumps Nos. 614 and 615	2 15	
3032.	Bearing for Pinion Shaft (Long) for Pumps Nos. 614 and 615	2 45	
3033.	Cylinder Body, 5 x 5 (abandoned), New 3079	28 00	
3034.	Cylinder Head (Front with Stuffing Box) for Pumps Nos. 614 and 615	6 30	
3035.	Cylinder Head (Rear, Plain), for Pumps Nos. 614 and 615	4 20	
3036.	Stuffing Box Nut with Pumps Nos. 614 and 615	2 15	
3037.	Air Chamber for 2½ inch Pipe for Pumps Nos. 614 and 615	7 00	
3038.	Valve Cap (abandoned) for Pump No. 613, New No. 3081	2 15	
3045.	Clamp (R. and L.), for Air Cylinder Power Pump 384A	1 70	
3046.	Base Cap for Air Cylinder Pump 384A	1 40	
3047.	Crosshead (Long Half), with Ears for Plunger Rod	15 50	
3048.	Air Chamber for Pumps Fig. 1397 and 1398	6 30	
3049.	Air Chamber for Pumps Fig. 1361 and 1362 (Peerless)	6 30	
3050.	Air Chamber Plate for Myers Knapsack Fire Pump	1 40	
3051.	Handle for Myers Knapsack Fire Pump	65	
3053.	Coupling for Myers Dairy Jack, from 1 inch to 1⅛ inch and 1 3/16 inch	1 70	
3054.	Gear and Eccentric Case for Pump No. 612	15 50	
3055.	Lid for Gear and Eccentric Case, Pump 612	3 50	
3056.	Gear and Eccentric for Pump 612	11 90	
3057.	Retaining Ring for Eccentric on Pump 612	1 25	
3058.	Bearing for Gear Shaft on Pump 612	1 25	
3059.	Bearing (Short) for Pinion Shaft on Pump 612	1 25	
3060.	Bearing (Long) for Pinion Shaft Pump 612	1 40	
3061.	Cylinder Body, 2½ x 3 inch Stroke, for Pump 612	11 25	
3062.	Cylinder Head, (Front) Stuffing Box Pump 612	2 80	
3063.	Cylinder Head, (Rear) Plain for Pump 612	1 70	
3064.	Compresion Cap for Pump 612	1 10	
3065.	Air Chamber for Pump 612	4 90	
3066.	Cap over Valves for Pump 612	1 00	
3067.	Connecting Link for Pump 612, with Bushing	4 90	
3068.	Cross Head on Pump 612	2 80	
3069.	Bucket Plate, 2½ inch (Inner), on Pump 612	30	
3070.	Bucket Plate, 2½ inch (Between Leathers), on Pump 612	55	
3071.	Vacuum Chamber for Pump 612	4 20	
3072.	Base, ½ (R. and L.), for Myers Lift Pump, 1¼ inch Pipe	1 05	
3073.	Jug for Myers Lift Pump, 1¼ inch Pipe	3 50	
3074.	Spout for Myers Lift Pump, 1¼ inch Pipe	1 25	
3075.	Swivel Ring for Spout for Lift Pump, 1¼ inch Pipe	40	
3076.	Cylinder Body, 4 x 5, for Bolt Caps on Pump 614. Replaces 3022	21 00	
3077.	Air Chamber for Pump 614. Replaces 3023	7 00	
3078.	Cap over Valves on Pump 614	1 70	
3079.	Cylinder Body, 5 x 5, for Bolt Caps, Pump 615. Replaces 3033	28 00	
3080.	Air Chamber for Pump 615. Replaces 3037	8 45	
3081.	Cap over Valves, Pump No. 615. Replaces 3038	2 15	
3082.	Vacuum Chamber for Pump No. 613	4 90	
3083.	Vacuum Chamber for Pump No. 614	6 30	
3084.	Vacuum Chamber for Pump No. 615	7 00	
3085.	Cross Head (Long Half), Improved, for No. 359 Power Pump	4 20	
3086.	Cross Head (Short Half), Improved, for No. 359 Power Pump	1 40	
3087.	Pulley, Diameter 30 x 3 inch Face	11 90	
3088.	Pinion C. R. S. 14T, 6DP, 2¼ inch Face, 1¼ inch Bore, for 2½ inch Triplex Pump. Replaces M120	4 20	
3089.	Pinion C. R. S. 15T, 5DP, 1½ inch Face, 1¼ inch Bore, for 392 Pump. Replaces M125	4 20	
3090.	Pinion C. R. S. 12T, 6DP, 1⅜ inch Face, 1 inch Bore, for Dairy Jack. Replaces M128.	2 80	
3091.	Pinion C. R. S. 12T, 6DP, 1¾ inch Face, 1⅛ inch Bore, for 613 Pump. Replaces M190.	4 20	
3092.	Pinion C. R. S. 13T, 5DP, 2¼ inch Face, 1¼ inch Bore, for 614 and 615 Pumps. Replaces M191	5 60	
3093.	Pinion C. R. S. 13T. 8DP, 1½ inch Face. ⅞ inch Bore. for 612 Pump. Replaces M213	3 50	
3094.	Gear, 120 Tooth, 6DP and 160T, 8DP, 1½ inch face. ⅞ to 1½ Bore. (State Bore and Pitch Wanted.)	14 00	
3095.	Rack, Bored ⅜ inch, for Rod on Myers Lift Pump	1 10	

Rep. No.		Price.	Complete.
3096.	Pulley, 15 x 2½ inch x ⅞ to 1⅛ inch Bore (state which)	$4 90	
3097.	Pulley, 20 x 3 x ⅞ to 1¼ inch Bore (state which)	5 95	
3098.	Bearing with Flange for Belt Tightener on Pump No. 612	1 70	
3099.	Oscillating Arm for Belt Tightener on Pump No. 612	3 50	
3100.	Swivel Ring for Oscillating Arm for Belt Tightener on Pump No. 612	1 10	
3101.	Pulley, 4 x 3, for Belt Tightener on Pump No. 612	1 70	
3102.	Bearing with Flange for Belt Tightener on Pump No. 613	2 15	
3103.	Oscillating Arm for Belt Tightener on Pump No. 613	4 20	
3104.	Swivel Ring for Oscillating Arm for Belt Tightener on Pump No. 613	1 40	
3105.	Pulley, 4½ x 3½, for Belt Tightener on Pump No. 613	2 15	
3106.	Bearing with Flange for Belt Tightener on Pumps 614 and 615	2 90	
3107.	Oscillating Arm for Belt Tightener on Pumps 614 and 615	5 15	
3108.	Swivel Ring for Oscillating Arm for Belt Tightener on Pumps No. 614 and 615	1 95	
3109.	Pulley, 4½ x 4½, for Belt Tightener on Pumps 614 and 615	2 80	
3110.	Yoke for Piston Guide (Improved), for Pump No. 359	8 45	
3111.	Hand Grip for Myers Compressed Air Sprayer	65	
3112.	Filling Cap for Myers Compressed Air Sprayer	1 10	
3113.	Bushing or Piston Guide, 1⅛ inch Bore, for 359 Pump (Improved)	1 40	
3114.	Piston Rod Guide and Air Cyl. Cap for 359 Pump	2 80	
3115.	Cyl. and Base for Pump Nos. 476, 486. 496	18 00	
3116.	Air Chamber for Pump Nos. 476, 486, 496	5 60	
3117.	Cyl. Head with S. Box for Nos. 476, 486, 496	3 35	
3118.	Cyl. Head, Plain, for Pump Nos. 476 and 486	2 80	
3119.	Handle Socket for Pump Nos. 486, 487, 488, 496, 497, 498, 476. 477, 478	2 80	
3120.	Oscillator, 8¾ inch Center, for Pump Nos. 486, 487, 488, 496, 497, 498, 476, 477, 478	1 40	
3121.	Bucket Plate (Inner), for Pump Nos. 476, 486, 496	65	
3122.	Bucket Plate (Between Leathers) for Pump Nos. 476, 486, 496	65	
3123.	Handle Lever (Mall), Pumps 476, 477, 478, 486, 487, 488, 496, 497, 498	3 15	
3124.	Piston Rod Eye for Pumps 476, 477, 478, 486, 487, 488, 496, 497, 498	1 00	
3125.	Handle Socket, Plain, for Pumps 486, 487, 488	1 70	
3126.	Oscillator, Blank, 8¾ inch Center, for Rep. 3125	1 40	
3127.	Oscillator, for Pump No. 478 and 488	2 10	
3128.	Oscillator, Blank, 9½ inch Center, Pump No. 488	2 10	
3129.	Cylinder and Base for Tank Pump No. R479 B. L., $12 35; Iron,	8 45	
3130.	Head (Cog-gear), for Tank Pump No. R479	4 20	
3131.	Head (Rear, Plain), for Tank Pump No. R479	2 10	
3132.	Rack for Tank Pump No. R479	65	
3133.	Cap Lid over Valves for No. R479	2 80	
3134.	Drop Valve (Suction), for No. R479	55	
3135.	Drop Valve (Discharge), for No. R479	65	
3136.	Handle Socket (Cog Gear), for No. R479	1 40	
3137.	6 inch Cyl. and Base for Pumps Nos. 478, 488, 498	35 00	
3138.	Air Chamber for Pumps 478, 488, 498	8 45	
3139.	Cyl. Head with S. Box, for Pumps 478, 488, 498	6 20	
3140.	Cyl. Head (Plain) for Pymps 487, 488	4 20	
3141.	Bucket Plate (Inner) for Pumps 498, 478, 488	1 40	
3142.	Bucket Plate (Between Leathers) for 487, 488, 498	1 40	
3143.	5 inch Cyl. and Base for Pumps 477, 487, 498	26 60	
3144.	Air Chamber for Pumps 477, 487, 497	7 00	
3145.	Cyl. Head with S. Box for Pumps 477, 487, 497	4 90	
3146.	Cyl. Head with Plain, for Pumps 477, 487, 497	3 50	
3147.	Plunger Plate (Inner) for Pumps 477, 487, 497	1 00	
3148.	Plunger Plate (Between Leathers) for 477, 487, 497	1 00	
3149.	Cyl. and Base, for R421	9 85	
3150.	Air Chamber for No. R421	2 80	
3151.	Head (Cog Gear) for No. R421	3 50	
3152.	Head (Rear), Plain, No. R421	1 80	
3153.	Floor Plate to hold Cog Gear Head to floor for No. R421	55	
3154.	Head, Wheeler, for No. 20 Style, 6, 8 and 10 inch Stroke. Replaces 268	4 20	
3155.	Rack for No. R421 Pump	1 00	
3157.	Pipe Bushing, 2½ inch, British Standard to 1¼ inch Briggs Standard	1 00	
3158.	Gear Case for Pump 616	47 25	
3159.	Lid for Case for Pump 616	8 90	
3160.	Gear and Eccentric for Pump 616	33 75	
3161.	Connecting Link for No. 616	15 75	
3162.	Cross Head for No. 616	7 00	
3163.	Retaining Ring for No. 616	2 45	
3164.	Bearing for Gear Shaft for No. 616	2 80	
3165.	Bearing for Pinion Shaft (Short), for No. 616	2 80	
3166.	Bearing for Pinion Shaft (Long), for No. 616	3 15	
3167.	Cyl. Body, Brass Lined, for No. 616	42 00	
3168.	Cylinder Head (Front with S. Box), for No. 616	8 90	
3169.	Cylinder Head (Rear, Plain), for No. 616	5 60	
3170.	Air Chamber for No. 616	14 00	
3171.	Vacuum Chamber for No. 616	11 25	
3172.	Cap over Valves for No. 616	3 35	
3173.	Bucket Plate, Inner (Replaces 2493) for 1 1/32 inch hole	1 40	
3174.	Bucket Plate, Between Leathers (Replaces 2493) for 1 1/32 inch hole	1 40	
3175.	Bearing with Flange for Belt Tightener for No. 616	4 20	
3176.	Oscillating Arm for Belt Tightener, for No. 616	7 75	
3177.	Swivel Ring, for Belt Tightener, for No. 616	3 35	
3178.	Pinion 15 T. 5 D. P., 3 inch Face, 1½ inch Bore (Steel), for No. 616	8 45	
3179.	Head (Cog Gear), for Myers Force Pump, Adj. Base	3 35	
3180.	Rack (Cog Gear), for Myers Force Pump	1 40	
3181.	Head for Giant Pump Jack 4431 List,	6 90	

Rep. No.		Price.	Complete.
3182.	Base for House Pump, 3 inch Cylinder, Tapped 1¼ inch Pipe (Replaces Repair No. 895)	List, $2 25	
3183.	Base for House Pump, 3 inch Cylinder, Brass Seat, Tapped 1¼ inch Pipe Replaces Repair 2805	List, 2 25	
3184.	Gear, 96 Teeth, 6 D.P. (408 Jack), with Extended Hub for Set Screws	List, 11 20	
3185.	Frame and Base with Bearing for Jack No. 431	List, 21 15	
3186.	Clamp, "V" Shaped, for Pipe for Jack No. 431	List, 2 10	
3187.	Base for House Pump, 3½ inch, Tapped 1½ inch Pipe (Replaces Repair 944)	List, 2 65	
3188.	Base for House Pump, 3½ inch, Tapped 1½ inch Pipe (Replaces Repair 2834)	List, 2 65	
3189.	Base for House Pump, 3½ inch Cylinder, Tapped for 1½ inch Pipe (Replaces Repair 1444)	List, 2 25	
3190.	Base for House Pump, 3 inch Cylinder, Tapped for 1¼ inch Pipe (Replaces Repair 1430)	List, 2 10	
3191.	Stand for Defiance Force Stand, Hand, for Hold	Base Pol., $6 75; B. L., 8 90	
3192.	Base for Three-Way Pumps Nos. 239 and 239A	List, 2 65	
3193.	Head for Three-Way Pumps Nos. 239 and 239A	List, 5 30	
3194.	Stand for Pumps 238 and 238A	List, 4 25	
3195.	Air Chamber for High Duty Pump No. 633	List, 6 65	
3196.	Cylinder Head (Rear) for High Duty Pump No. 633	List, 3 15	
3197.	Cylinder Body for High Duty Pump No. 633, with Valve Seats	List, 26 50	
3198.	Cylinder Head (Front) for Stuffing Box High Duty Pump 633	List, 6 35	
3199.	Piston Arm (Double) for Pumping Jack No. 405	List, 4 75	
3200.	Cylinder Body for High Duty Pump No. 634	List, 31 75	
3201.	Cylinder Head (Front) for Stuffing Box High Duty Pump 634	List, 7 40	
3202.	Cylinder Head (Rear) for High Duty Pump No. 634	List, 4 25	
3203.	Air Chamber for High Duty Pump No. 634	List, 7 35	

Brass Repairs.

B 1.	Stuffing Nut for Figs. 1322 and 1323, Vermorel Nozzles	$0 35
B 2.	Thumb Nut for Plunger on Figs. 1322 and 1323, Vermorel Nozzles	20
B 3.	Plunger Stem for Figs. 1322 and 1323, Vermorel Nozzles	35
B 4.	Bushing for Wrist Pin on No. 504, Bulldozer Pump	3 50
B 5.	Plunger Cage for 3 inch F Plunger	1 75
B 6.	Drop Check Valve for 3 inch F Plunger	65
B 7.	Body for Fig. 1317, Power Spray Nozzle	90
B 8.	Body for Fig. 763, Vermorel Nozzle	90
B 9.	Cap for all Vermorel Nozzles	35
B 10.	Worm Thread for Plunger Stem on Figs. 763 and 1322, Vermorel Nozzles	20
B 11.	Washer for Plunger Stem on Figs. 763 and 1322, Vermorel Nozzles	05
B 12.	Slide for Long Distance Spray Nozzle	50
B 13.	Stuffing Nut for Fig. 1317, Power Nozzle	55
B 14.	Plunger Stem with Worm Thread for Fig. 1317, Power Nozzle	65
B 15.	Reducer Coupling (⅛ to ¼ inch Pipe) for Fig. 1317, Power Nozzle	55
B 16.	Y Connection, ¾ inch Hose x ¾ inch Pipe, Fig. 541	1 10
B 17.	Stuffing Nut for Repair No. 1125 on Nos. 315, 320, 327 Pumps	35
B 18.	Gland for Repair No. 2088	1 75
B 19.	Body for Fig. 550, Cyclone Nozzle	50
B 20.	Body for Fig. 551, Cyclone Nozle	50
B 21.	Cap for Figs. 550 and 551 Cyclone Nozzles	35
B 22.	Valve Seat for No. 285 Style Pump	65
B 23.	Plunger Cage for 1 13/16 inch, Fig. 1153, Brass Lined Working Barrel	3 15
B 24.	Plunger Cage for 2¼ inch, Fig. 1153, Brass Lined Working Barerl	4 20
B 25.	Plunger Cage for 2¾ inch, Fig. 1153, Brass Lined Working Barrel	5 85
B 26.	Plunger Cage for 3¼ inch, Fig. 1153, Brass Lined Working Barrel	8 45
B 27.	Plunger Cage for 3¾ inch, Fig. 1153, Brass Lined Working Barrel	11 15
B 28.	Plunger Cage for 4¼ inch, Fig. 1153, Brass Lined Working Barrel	12 65
B 29.	Plunger Cage for 4¾ inch, Fig. 1153, Brass Lined Working Barrel	19 00
B 30.	Plunger Cage for 5¾ inch, Fig. 1153, Brass Lined Working Barrel	25 30
B 31.	Plunger Cage for 6¾ inch, Fig. 1153, Brass Lined Working Barrel	42 20
B 32.	Plunger Cage for 7 7/16 inch, Fig. 1153, Brass Lined Working Barrel	94 95
B 36.	Check Valve Cage for 1 13/16 inch, Fig. 1153, Brass Lined Working Barrel	3 15
B 37.	Check Valve Cage for 2¼ inch, Fig. 1153, Brass Lined Working Barrel	4 20
B 38.	Check Valve Cage for 2¾ inch, Fig. 1153, Brass Lined Working Barrel	5 85
B 39.	Check Valve Cage for 3¼ inch, Fig. 1153, Brass Lined Working Barrel	8 45
B 40.	Check Valve Cage for 3¾ inch, Fig. 1153, Brass Lined Working Barrel	11 15
B 41.	Check Valve Cage for 4¼ inch, Fig. 1153, Brass Lined Working Barrel	12 65
B 42.	Check Valve Cage for 4¾ inch, Fig. 1153, Brass Lined Working Barrel	19 00
B 43.	Check Valve Cage for 5¾ inch, Fig. 1153, Brass Lined Working Barrel	25 30
B 44.	Check Valve Cage for 6¾ inch, Fig. 1153, Brass Lined Working Barrel	42 20
B 45.	Check Valve Cage for 7 7/16 inch, Fig. 1153, Brass Lined Working Barrel	94 95
B 49.	Taper Check Valve Follower for 1 13/16 inch, Fig. 1153, Brass Lined Working Barrel	3 15
B 50.	Taper Check Valve Follower for 2¼ inch, Fig. 1153, Brass Lined Working Barrel	3 70
B 51.	Taper Check Valve Follower for 2¼ inch, Fig. 1153, Brass Lined Working Barrel	5 30
B 52.	Taper Check Valve Follower for 3¼ inch, Fig. 1153, Brass Lined Working Barrel	7 30
B 53.	Taper Check Valve Follower for 3¾ inch, Fig. 1153, Brass Lined Working Barrel	9 50
B 54.	Taper Check Valve Follower for 4¼ inch, Fig. 1153, Brass Lined Working Barrel	10 55
B 55.	Taper Check Valve Follower for 4¾ inch, Fig. 1153, Brass Lined Working Barrel	14 75
B 56.	Taper Check Valve Follower for 5¾ inch, Fig. 1153, Brass Lined Working Barrel	19 00
B 57.	Taper Check Valve Follower for 6¾ inch, Fig. 1153, Brass Lined Working Barrel	37 85
B 58.	Taper Check Valve Follower for 7 7/16 inch, Fig. 1153, Brass Lined Working Barrel	75 60
B 62.	Plunger Sleeve Follower for 1 13/16 inch, Fig. 1153, Brass Lined Working Barrel	3 70
B 63.	Plunger Sleeve Follower for 2¼ inch, Fig. 1153, Brass Lined Working Barrel	5 30

Rep. No.		Price.	Complete.
B 64.	Plunger Sleeve Follower for 2¾ inch, Fig. 1153, Brass Lined Working Barrel	$7 30	
B 65.	Plunger Sleeve Follower for 3¼ inch, Fig. 1153, Brass Lined Working Barrel	11 15	
B 66.	Plunger Sleeve Follower for 3¾ inch, Fig. 1153, Brass Lined Working Barrel	13 70	
B 67.	Plunger Sleeve Follower for 4¼ inch, Fig. 1153, Brass Lined Working Barrel	15 75	
B 68.	Plunger Sleeve Follower for 4¾ inch, Fig. 1153, Brass Lined Working Barrel	25 30	
B 69.	Plunger Sleeve Follower for 5¾ inch, Fig. 1153, Brass Lined Working Barrel	31 60	
B 70.	Plunger Sleeve Follower for 6¾ inch, Fig. 1153, Brass Lined Working Barrel	52 75	
B 71.	Plunger Sleeve Follower for 7$\frac{7}{16}$ inch, Fig. 1153, Brass Lined Working Barrel	126 00	
B 75.	Lock Nuts on Plunger for 1$\frac{13}{16}$ inch, Fig. 1153, Brass Lined Working Barrel	1 05	
B 76.	Lock Nuts on Plunger for 2¼ inch, Fig. 1153, Brass Lined Working Barrel	1 55	
B 77.	Lock Nuts on Plunger for 2¾ inch, Fig. 1153, Brass Lined Working Barrel	2 15	
B 78.	Lock Nuts on Plunger for 3¼ inch, Fig. 1153, Brass Lined Working Barrel	2 65	
B 79.	Lock Nuts on Plunger for 3¾ inch, Fig. 1153, Brass Lined Working Barrel	3 15	
B 80.	Lock Nuts on Plunger for 4¼ inch, Fig. 1153, Brass Lined Working Barrel	3 15	
B 81.	Lock Nuts on Plunger for 4¾ inch, Fig. 1153, Brass Lined Working Barrel	4 80	
B 82.	Lock Nuts on Plunger for 5¾ inch, Fig. 1153, Brass Lined Working Barrel	6 30	
B 83.	Lock Nuts on Plunger for 6¾ inch, Fig. 1153, Brass Lined Working Barrel	10 50	
B 84.	Lock Nuts on Plunger for 7$\frac{7}{16}$ inch, Fig. 1153, Brass Lined Working Barrel	14 75	
B 88.	Lever for Fig. 1283, Shut-off Cock	1 05	
B 89,	Body for Fig. 1283 Shut-off Cock		
B 90.	Stuffing Nut for Fig. 1283, Shut-off Cock	35	
B 91.	Washer (for packing) for Fig. 1283, Shut-off Cock	10	
B 92.	Body for Fig. 1019, Bordeaux Nozzle	90	
B 93.	Lever and Plug for Fig. 1019, Bordeaux Nozzle	1 05	
B 94.	Nut for Lever and Plug for Fig. 1019, Bordeaux Nozzle	05	
B 95.	Set Screw for Fig. 1019, Bordeaux Nozzle	05	
B 96.	Washer for Fig. 1019, Bordeaux Nozzle	10	
B 97.	Valve Seat (beveled) for Nos. R438, 439 Spray Pumps	1 05	
B 98.	Drop Valve, Wing Guide for Nos. R438, 439 Spray Pumps	1 05	
B 99.	Hose Nipple, 1¼ inch Hose x 2 inch Pipe, for No. 473 Pump	1 75	
B100.	Stuffing Nut, Upper, ½ inch Hole, for Cyclone Tank Pump	1 05	
B101.	Stuffing Nut, $\frac{13}{16}$ inch Hole, for all Low Down Pumps, Siphon Pumps, Ashland Tubular Well Stands and California Working Heads	85	
B102.	Wing Check Valve for Upper Air Valve on Repair Nos. 2036 and 2131	50	
B103.	Stuffing Box Nut for Repair No. 2166	1 40	
B104.	Elbow or Bend for Pipe Extension	50	
B105.	Stuffing Nut, $\frac{21}{32}$ inch Hole, for all Discharge Spouts having Three-Way Attachments	65	
B106.	Body for Power Nozzle, Fig. 1290	1 25	
B107.	Cap for Power Nozzles, Figs. 1290 and 1317	50	
B108.	Tee for Double Vermorel Nozzle	55	
B109.	Body for Figs. 1065 and 1066, Vermorel Nozzles	65	
B110.	Tripod for Triple Vermorel Nozzle	90	
B111.	Stuffing Nut for Figs. 1065 and 1066, Vermorel Nozzles	35	
B112.	Body for ½ inch Air Valve on Nos. 501A and 502A Pumps	1 05	
B113.	Stem for ½ inch Air Valve on Nos. 501A and 502A Pumps	55	
B114.	Nut for Stem for ½ inch Air Valve on Nos. 501A and 502A Pumps	10	
B115.	Air Valve Cap for ½ inch Air Valve on Nos. 501A and 502A Pumps	55	
B116.	Body for ⅜ inch Air Valve on Nos. 285A and 286A Pumps	90	
B117.	Stem for ⅜ inch Air Valve on Nos. 285A and 286A Pumps	50	
B118.	Nut for Stem for ⅜ inch Air Valve on Nos. 285A and 286A Pumps	10	
B119.	Air Valve Cap for ⅜ inch Air Valve on Nos. 285A and 286A Pumps	50	
B120.	Stuffing Nut for Air Cylinder Head on Nos. 285A and 286A Pumps	65	
B121.	Valve Seat for Upper Air Valve on Nos. 285A and 286A Pumps	35	
B122.	Stuffing Nut for Nos. R279 and R309 Pumps	1 05	
B123.	Packing Gland for B122	1 05	
B124.	Double Elbow Y or Bend, ¼ inch Pipe for Pipe Extensions	85	
B125.	Male End for Hose on Fountain Spray Pump	40	
B126.	Female End for Can on Fountain Spray Pump	20	
B127.	Hose and Bulb Valve for Fountain Spray Pump	35	
B128.	Bulb and Nozzle Valve for Fountain Spray Pump (Valve with one End Threaded)	40	
B129.	Rose or Nozzle for Fountain Spray Pump	85	
B130.	Y Connection for ¼ inch Pipe, Fig. 908	1 05	
B131.	Valve Seat (pressed in) for Nos. R279, R309 and 313 Pumps	65	
B132.	Stuffing Nut for Nos. 313, 378A, 379A, 439 and 580 Pumps	1 05	
B133.	Check Valve Cage for 2½ and 3 inch Cylinders, Fig. 1391	2 15	
B134.	Check Valve Cage for 3½ inch Cylinder, Fig. 1391	3 15	
B135.	Check Valve Cage for 4 inch Cylinder, Fig. 1391	4 20	
B136.	Check Valve Cage for 5 inch Cylinder, Fig. 1391	6 30	
B137.	Check Valve Cage for 6 inch Cylinder, Fig. 1391	8 45	
B138.	Check Valve Seat for 2½ and 3 inch Cylinders, Fig. 1391	3 15	
B139.	Check Valve Seat for 3½ inch Cylinder, Fig. 1391	4 20	
B140.	Check Valve Seat for 4 inch Cylinder, Fig. 1391	5 30	
B141.	Check Valve Seat for 5 inch Cylinder, Fig. 1391	7 35	
B142.	Check Valve Seat for 6 inch Cylinder, Fig. 1391	9 50	
B143.	Drop Check Valve for 2½ and 3 inch Cylinders, Fig. 1391	2 70	
B144.	Drop Check Valve for 3½ inch Cylinder, Fig. 1391	3 15	
B145.	Drop Check Valve for 4 inch Cylinder, Fig. 1391	4 20	
B146.	Drop Check Valve for 5 inch Cylinder, Fig. 1391	5 30	
B147.	Drop Check Valve for 6 inch Cylinder, Fig. 1391	6 85	
B148.	Stuffing Nut, ⅝ inch Hole, for No. R170 Style Pump	65	
B149.	Stuffing Nut, 33/64 inch Hole, for House Pumps	55	
B150.	Valve Weight for B151 on Air Chamber on Nos. R309, 313 and 580 Pumps	40	
B151.	Wing Guide for B150 on Air Chamber on Nos. R309, 313 and 580 Pumps	65	
B152.	Hose Nipple, 1 inch Hose x 2 inch Pipe for Nos. 464 and 473 Pumps	1 70	
B153.	**Stuffing Box Cap for Plunger Tube on No. 319 Pump**	85	

Rep. No.		Price.
B154.	Stuffing Box Cap for Air Chamber on No. 319 Pump	$0 65
B155.	Cap, Upper for Cylinder on No. 319 Pump	85
B156.	Connection between Air Chamber and Plunger Tube on No. 319 Pump	2 15
B157.	Packing Gland for Compression Caps on Nos. R440, R441, R460 and 480 Pumps	2 15
B158.	Wing Guide for Nos. R440, R441, R460 and 480 Pumps	1 05
B159.	Valve Seat for Nos. R440, R441, R460 and 480 Pumps	1 05
B160.	Plunger Cage for 1 13/16 inch, Fig. 1402, Brass Lined Working Barrel	1 90
B161.	Plunger Cage for 2 1/4 inch, Fig. 1402, Brass Lined Working Barrel	2 55
B162.	Plunger Cage for 2 3/4 inch, Fig. 1402, Brass Lined Working Barrel	3 35
B163.	Plunger Cage for 3 1/4 inch, Fig. 1402, Brass Lined Working Barrel	5 00
B164.	Plunger Cage for 3 3/4 inch, Fig. 1402, Brass Lined Working Barrel	6 50
B165.	Plunger Cage for 4 1/4 inch, Fig. 1402, Brass Lined Working Barrel	8 45
B166.	Plunger Cage for 4 3/4 inch, Fig. 1402, Brass Lined Working Barrel	11 10
B167.	Plunger Cage for 5 3/4 inch, Fig. 1402, Brass Lined Working Barrel	14 75
B168.	Plunger Follower for 1 13/16 inch, Fig. 1402, Brass Lined Working Barrel	2 15
B169.	Plunger Follower for 2 1/4 inch, Fig. 1402, Brass Lined Working Barrel	3 15
B170.	Plunger Follower for 2 3/4 inch, Fig. 1402, Brass Lined Working Barrel	4 20
B171.	Plunger Follower for 3 1/4 inch, Fig. 1402, Brass Lined Working Barrel	6 30
B172.	Plunger Follower for 3 3/4 inch, Fig. 1402, Brass Lined Working Barrel	8 45
B173.	Plunger Follower for 4 1/4 inch, Fig. 1402, Brass Lined Working Barrel	10 50
B174.	Plunger Follower for 4 3/4 inch, Fig. 1402, Brass Lined Working Barrel	14 75
B175.	Plunger Follower for 5 3/4 inch, Fig. 1402, Brass Lined Working Barrel	19 00
B176.	Check Valve Cage for 1 13/16 inch, Fig. 1402, Brass Lined Working Barrel	1 90
B177.	Check Valve Cage for 2 1/4 inch, Fig. 1402, Brass Lined Working Barrel	2 55
B178.	Check Valve Cage for 2 3/4 inch, Fig. 1402, Brass Lined Working Barrel	3 35
B179.	Check Valve Cage for 3 1/4 inch, Fig. 1402, Brass Lined Working Barrel	5 00
B180.	Check Valve Cage for 3 3/4 inch, Fig. 1402, Brass Lined Working Barrel	6 50
B181.	Check Valve Cage for 4 1/4 inch, Fig. 1402, Brass Lined Working Barrel	8 45
B182.	Check Valve Cage for 4 3/4 inch, Fig. 1402, Brass Lined Working Barrel	11 10
B183.	Check Valve Cage for 5 3/4 inch, Fig. 1402, Brass Lined Working Barrel	14 75
B184.	Compression Cap for Cylinders on Nos. R440, R441, R460 and 480 Pumps	3 50
B185.	Plunger Casting for No. 319 Pump	55
B186.	Poppet or Drop Valve for Plunger or Check Valve in 1 13/16 inch, Fig. 1402, Brass Lined Working Barrel	80
B187.	Poppet or Drop Valve for Plunger or Check Valve in 2 1/4 inch, Fig. 1402, Brass Lined Working Barrel	95
B188.	Poppet or Drop Valve for Plunger or Check Valve in 2 3/4 inch, Fig. 1402, Brass Lined Working Barrel	1 40
B189.	Poppet or Drop Valve for Plunger or Check Valve in 3 1/2 inch, Fig. 1402, Brass Lined Working Barrel	2 15
B190.	Poppet or Drop Valve for Plunger or Check Valve in 3 3/4 inch, Fig. 1402, Brass Lined Working Barrel	3 15
B191.	Poppet or Drop Valve for Plunger or Check Valve in 4 1/4 inch, Fig. 1402, Brass Lined Working Barrel	4 20
B192.	Poppet or Drop Valve for Plunger or Check Valve in 4 3/4 inch, Fig. 1402, Brass Lined Working Barrel	5 85
B193.	Poppet or Drop Valve for Plunger or Check Valve in 5 3/4 inch, Fig. 1402, Brass Lined Working Barrel	7 30
B194.	Check Valve Follower for 1 13/16 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	2 15
B195.	Check Valve Follower for 2 1/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	2 55
B196.	Check Valve Follower for 2 3/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	3 70
B197.	Check Valve Follower for 3 1/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	5 30
B198.	Check Valve Follower for 3 3/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	6 85
B199.	Check Valve Follower for 4 1/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	8 45
B200.	Check Valve Follower for 4 3/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	10 00
B201.	Check Valve Follower for 5 3/4 inch, Figs. 1402 and 1403, Brass Lined Working Barrels.	12 60
B202.	Cage Follower, 3 inch, for Drop Check Valve (Glass Seat)	65
B203.	Body for Fig. 1290 Power Nozzle	1 40
B204.	Wing Guide Valve for Air Chamber on Nos. R438 and 439 Pumps	90
B205.	Plunger Cage for 1 13/16 inch, Fig. 1403, Brass Lined Working Barrel	2 15
B206.	Plunger Cage for 2 1/4 inch, Fig. 1403, Brass Lined Working Barrel	2 80
B207.	Plunger Cage for 2 3/4 inch, Fig. 1403, Brass Lined Working Barrel	3 90
B208.	Plunger Cage for 3 1/4 inch, Fig. 1403, Brass Lined Working Barrel	5 60
B209.	Plunger Cage for 3 3/4 inch, Fig. 1403, Brass Lined Working Barrel	7 30
B210.	Check Valve Cage for 1 13/16 inch, Fig. 1403, Brass Lined Working Barrel	2 15
B211.	Check Valve Cage for 2 1/4 inch, Fig. 1403, Brass Lined Working Barrel	2 80
B212.	Check Valve Cage for 2 3/4 inch, Fig. 1403, Brass Lined Working Barrel	3 90
B213.	Check Valve Cage for 3 1/4 inch, Fig. 1403, Brass Lined Working Barrel	5 60
B214.	Check Valve Cage for 3 3/4 inch, Fig. 1403, Brass Lined Working Barrel	7 30
B215.	Plunger Sleeve Follower for 1 13/16 inch, Fig. 1403, Brass Lined Working Barrel	2 50
B216.	Plunger Sleeve Follower for 2 1/4 inch, Fig. 1403, Brass Lined Working Barrel	3 60
B217.	Plunger Sleeve Follower for 2 3/4 inch, Fig. 1403, Brass Lined Working Barrel	5 00
B218.	Plunger Sleeve Follower for 3 1/4 inch, Fig. 1403, Brass Lined Working Barrel	7 15
B219.	Plunger Sleeve Follower for 3 3/4 inch. Fig. 1403, Brass Lined Working Barrel	9 50
B220.	Spool Poppet Valve for Plunger or Check Valve in 1 13/16 inch, Fig. 1403, Brass Lined Working Barrel	85
B221.	Spool Poppet Valve for Plunger or Check Valve in 2 1/4 inch, Fig. 1403, Brass Lined Working Barrel	1 20
B222.	Spool Poppet Valve for Plunger or Check Valve in 2 3/4 inch, Fig. 1403, Brass Lined Working Barrel	1 20
B223.	Spool Poppet Valve for Plunger or Check Valve in 3 1/4 inch, Fig. 1403, Brass Lined Working Barrel	2 65
B224.	Spool Poppet Valve for Plunger or Check Valve in 3 3/4 inch, Fig. 1403, Brass Lined Working Barrel	5 30
B225.	Cap, Lower, for 1 13/16 inch, Fig. 1404, Brass Working Barrel (abandoned)	7 30

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Rep. No.		Price.	Complete.
B226.	Cap, Lower, for 2¼ inch, Fig. 1404, Brass Working Barrel (abandoned)	$11 10	
B227.	Cap, Lower, for 2¾ inch, Fig. 1404, Brass Working Barrel (abandoned)	12 65	
B228.	Cap, Lower, for 3¼ inch, Fig. 1404, Brass Working Barrel (abandoned)	15 75	
B229.	Cap, Lower, for 3¾ inch, Fig. 1404, Brass Working Barrel (abandoned)	21 00	
B230.	Cap, Lower, for 4¼ inch, Fig. 1404, Brass Working Barrel (abandoned)	25 30	
B231.	Cap, Lower, for 4¾ inch, Fig. 1404, Brass Working Barrel (abandoned)	33 75	
B232.	Cap, Lower, for 5¾ inch, Fig. 1404, Brass Working Barrel (abandoned)	52 75	
B233.	Cap, Upper, for 1 13/16 inch, Fig. 1404, Brass Working Barrel	4 80	
B234.	Cap, Upper, for 2¼ inch, Fig. 1404, Brass Working Barrel	6 85	
B235.	Cap, Upper, for 2¾ inch, Fig. 1404, Brass Working Barrel	9 00	
B236.	Cap, Upper, for 3¼ inch, Fig. 1404, Brass Working Barrel	11 10	
B237.	Cap, Upper, for 3¾ inch, Fig. 1404, Brass Working Barrel	13 20	
B238.	Cap, Upper, for 4¼ inch, Fig. 1404, Brass Working Barrel	15 30	
B239.	Cap, Upper, for 4¾ inch, Fig. 1404, Brass Working Barrel	19 00	
B240.	Cap, Upper, for 5¾ inch, Fig. 1404, Brass Working Barrel	25 30	
B241.	Wing Guide Valve for Air Chamber on No. 343 Pump	65	
B242.	Valve Weight for B241 on Air Chamber on No. 343 Pump	65	
B243.	Stuffing Box Nut, 7/16 inch Hole, for No. CR552 Style Pump	65	
B244.	Seat for Air Chamber Drop Check Valve on No. 343 Pump	90	
B245.	Cap for Fig. 541Y, Tapped for ¾ inch Hose	30	
B246.	Check Valve on Nos. 351, 352, 362, 362A and 504 Pumps	1 40	
B247.	Check Valve on No. 363 Pump	2 15	
B248.	Check Valve on Nos. 346 and 352 Pumps	2 80	
B249.	Machine Bolt, ½ x 2¼ inch, for Nos. 352 and 363 Pumps	40	
B250.	Bushing for Wrist Pin on No. 500 Pump	2 50	
B251.	Plunger Cage for 2½ inch, Fig. 1391, Heavy Brass Body Cylinder	2 15	
B252.	Plunger Cage for 3 inch, Fig. 1391, Heavy Brass Body Cylinder	2 80	
B253.	Plunger Cage for 3½ inch, Fig. 1391, Heavy Brass Body Cylinder	3 90	
B254.	Plunger Cage for 4 inch, Fig. 1391, Heavy Brass Body Cylinder	4 90	
B255.	Plunger Cage for 5 inch, Fig. 1391, Heavy Brass Body Cylinder	7 70	
B256.	Plunger Cage for 6 inch, Fig. 1391, Heavy Brass Body Cylinder	10 50	
B257.	Plate for Rubber Check Valve on No. 352 Pump	50	
B258.	Bolt for Rubber Check Valve (⅜ x 1¾ inch) on Nos. 351, 353, 362, 502 and 504 Pumps	30	
B259.	Cap, Lower, 1 13/16 inch, Tapped 1¼ inch, for Fig. 1404, Brass Working Barrel	7 30	
B260.	Cap, Lower, 2¼ inch, Tapped, 1¼ inch, for Fig. 1404, Brass Working Barrel	9 45	
B261.	Cap, Lower, 2¾ inch, Tapped 1½ inch, for Fig. 1404, Brass Working Barrel	11 10	
B262.	Cap, Lower, 3¼ inch, Tapped 1½ inch, for Fig. 1404, Brass Working Barrel	14 30	
B263.	Cap, Lower, 3¾ inch, Tapped 2 inch, for Fig. 1404. Brass Working Barrel	17 45	
B264.	Cap, Lower, 4¾ inch, Tapped 2½ inch, for Fig. 1404, Brass Working Barrel	23 10	
B265.	Cap, Lower, 1 13/16 inch, Tapped 1¼ inch, for Fig. 1504, Brass Working Barrel	5 30	
B266.	Cap, Lower, 2¼ inch, Tapped 1¼ inch, for Fig. 1504, Brass Working Barrel	6 30	
B267.	Cap, Lower, 2¾ inch, Tapped 1½ inch, for Fig. 1504, Brass Working Barrel	7 30	
B268.	Cap, Lower, 3¼ inch, Tapped, 1½ inch, for Fig. 1504, Brass Working Barrel	9 00	
B269.	Cap, Lower, 3¾ inch, Tapped 2 inch, for Fig. 1504, Brass Working Barrel	10 50	
B270.	Cap, Lower, 4¾ inch, Tapped 2½ inch, for Fig. 1504, Brass Working Barrel	14 75	
B271.	Cap, Upper, 1 13/16 inch, Tapped 1¼ inch, for Fig. 1504, Brass Working Barrel	4 50	
B272.	Cap, Upper, 2¼ inch, Tapped 1¼ inch, for Fig. 1504, Brass Working Barrel	4 80	
B273.	Cap, Upper, 2¾ inch, Tapped 1½ inch, for Fig. 1504, Brass Working Barrel	5 85	
B274.	Cap, Upper, 3¼ inch, Tapped 1½ inch, for Fig. 1504, Brass Working Barrel	6 85	
B275.	Cap, Upper, 3¾ inch, Tapped, 2 inch, for Fig. 1504, Brass Working Barrel	7 85	
B276.	Cap, Upper, 4¾ inch, Tapped 2½ inch, for Fig. 1504, Brass Working Barrel	11 60	
B277.	Bushing for Side Arm on No. 383 Working Head	3 50	
B278.	Body for Fig. 1470, Myers Way Nozzle	90	
B279.	Disc for Fig. 1470, Myers Way Nozzle	55	
B280.	Thumb Nut for Fig. 1470, Myers Way Nozzle	35	
B281.	Journal Bearing on Piston Rod for Nos. 445, 446, 447, 448, 480 and 480M Pumps	2 15	
B282.	Cap for Journal Bearing on Nos. 445, 446, 447, 448, 480 and 480M Pumps	1 40	
B283.	Cap for Spout No. 2328 on Nos. 249 to 254½ Pumps	35	
B284.	Cage Follower for 2 to 3¼ inch Perfect Valve	40	
B285.	Seat, Brass, for 2 to 3¼ inch Perfect Valve	65	
B286.	Poppet Valve for 2 to 3¼ inch Perfect Brass Seat	55	
B287.	Plunger Sleeve Follower for 1 13/16 inch, Fig. 1504, Brass Working Barrel	3 70	
B288.	Plunger Sleeve Follower for 2¼ inch, Fig. 1504, Brass Working Barrel	5 30	
B289.	Plunger Sleeve Follower for 2¾ inch, Fig. 1504, Brass Working Barrel	7 30	
B290.	Plunger Sleeve Follower for 3¼ inch, Fig. 1504, Brass Working Barrel	11 10	
B291.	Plunger Sleeve Follower for 3¾ inch, Fig. 1504, Brass Working Barrel	13 70	
B292.	Plunger Sleeve Follower for 4¾ inch, Fig. 1504, Brass Working Barrel	25 30	
B293.	Check Valve Cage for 1 13/16 inch, Fig. 1504, Brass Working Barrel	3 15	
B294.	Check Valve Cage for 2¼ inch, Fig. 1504, Brass Working Barrel	4 20	
B295.	Check Valve Cage for 2¾ inch, Fig. 1504, Brass Working Barrel	5 85	
B296.	Check Valve Cage for 3¼ inch, Fig. 1504, Brass Working Barrel	8 45	
B297.	Check Valve Cage for 3¾ inch, Fig. 1504, Brass Working Barrel	11 10	
B298.	Check Valve Cage for 4¾ inch, Fig. 1504, Brass Working Barrel	19 00	
B299.	Cage Follower for 3½ inch Perfect Valve	50	
B300.	Seat, Brass, for 3½ inch Perfect Valve	95	
B301.	Poppet Valve for 3½ inch Perfect Valve	65	
B302.	Cage Follower for 4 and 4½ inch Perfect Valve	90	
B303.	Seat, Brass, for 4 and 4½ inch Perfect Valve	1 50	
B304.	Poppet Valve for 4 and 4½ inch Perfect Valve	95	
B305.	Cage Follower for 5 inch Perfect Valve	1 25	
B306.	Seat, Brass, for 5 inch Perfect Valve	2 15	
B307.	Poppet Valve for 5 inch Perfect Valve	2 15	
B308.	Cage Follower for 6 inch Perfect Valve	2 15	
B309.	Seat, Brass, for 6 inch Perfect Valve	3 15	
B310.	Poppet Valve for 6 inch Perfect Valve	2 80	
B311.	Cap, Lower, 5¾ inch, Tapped 3 inch, for Fig. 1404, Brass Working Barrel	30 50	

Rep. No.		Price.
B312.	Valve Seat for Rubber Check Valve on Nos. 501 and 502 Pumps	$1 05
B313.	Body for Fig. 552 Vermorel Nozzle	90
B314.	Coupling, Lower, for Bamboo Extension	55
B315.	Coupling, Upper, for Bamboo Extension	55
B316.	Nut, Tapped ¼ inch Pipe Size, 18 Thread for Nos. 1, 8, 313, 309 and 500 Pumps	05
B317.	Body for Air Valve, with Male End for ¼ inch Union Nut. Used with No. 388A and Electric Pumps	2 80
B318.	Valve Cap for B317 Air Valve	50
B319.	Lever Key for B317 Air Valve	1 05
B320.	Washer for Lever Key B319	20
B321.	Wing Check for B317 Air Valve	20
B322.	Union Nut for Suction Pipe on No. R316B Pump	1 40
B323.	Bushing for Pressure Controller	2 15
B324.	Seat, Brass, for 2 inch, Fig. 1142, Cylinder	55
B325.	Seat, Brass, for 2¼ inch, Fig. 1142, Cylinder	55
B326.	Seat, Brass, for 2½ inch, Fig. 1142, Cylinder	65
B327.	Cap, Lower, 4¼ inch, Tapped 2 inch, for Fig. 1504, Brass Working Barrel	12 35
B328.	Cap, Upper, 4¼ inch, Tapped 2 inch, for Fig. 1504, Brass Working Barrel	9 00
B329.	Body for Fig. 1505, Shut-off	1 05
B330.	Stuffing Box Nut, ½ inch, for Piston on all Single Acting Three-Way Pumps	65
B331.	Seat, Brass, for 2¾ inch, Fig. 1142, Cylinder	65
B332.	Seat, Brass, for 3 inch, Fig. 1142, Cylinder	65
B333.	Seat, Brass, for 3¼ inch, Fig. 1142, Cylinder	1 00
B334.	Seat, Brass, for 3½ inch, Fig. 1142, Cylinder	1 00
B335.	Seat, Brass, for 4 inch, Fig. 1142, Cylinder	1 40
B336.	Seat, Brass, for 4½ inch, Fig. 1142, Cylinder	1 70
B337.	Seat, Brass, for 5 inch, Fig. 1142, Cylinder	2 80
B338.	Seat, Brass, for 6 inch, Fig. 1142, Cylinder	3 50
B339.	Seat, Brass, for 7 inch, Fig. 1142, Cylinder	4 90
B340.	Seat, Brass, for 8 inch, Fig. 1142, Cylinder	6 75
B341.	Plunger Sleeve Follower for 4¼ inch, Fig. 1504, Brass Working Barrel	15 75
B342.	Check Valve Cage for 4¼ inch, Fig. 1504, Brass Working Barrel	12 65
B343.	Top Cap for Peerless Spray Pump	1 70
B344.	36 inch Nozzle Body for Fig. 1559 Nozzle	1 05
B345.	Body for Vermorel Nozzle, Fig. 1563	1 05
B346.	Disc for Nozzles, Figs. 1563, 1564, 642	05
B347.	Packing Gland for Pumps Nos. 435 and 436	1 95
B348.	Compression Cap for Pumps Nos. 435 and 436	3 15
B349.	Journal Casting for Pumps Nos. 435 and 436	1 95
B350.	Cap for Journal Casting B349	1 25
B351.	Hose Reducer, 2 inch Pipe to 1½ inch Hose	1 90
B352.	Y for 26° Nozzle, Fig. 1560	85
B353.	Body for Air Valve on Nos. 378A and 379A Pumps	55
B354.	Cap for Air Valve on No. 378A and 379A Pumps	35
B355.	Wing Check for Air Valve on Nos. 378A and 379A Pumps	20
B356.	Base for Peerless Bucket Spray Pump	1 40
B357.	⅜ inch Male End for Fig. 1284 Coupling	50
B358.	Loose Male End for Fig. 1284 Coupling	40
B359.	⅜ inch Male End for Hose, Fig. 1335	50
B360.	Stuffing Nut for Fig. 1563 Nozzle, without Spring	35
B361.	Tee, ¼ inch Pipe Size for Potato Sprayer Nozzle	85
B362.	Body for Hop Nozzle, Fig. 553	1 40
B363.	Cap for Hop Nozzle, Fig. 553	1 05
B364.	Cap, Upper, 1¾ inch, with 1 inch Pipe Tap for Fig. 214 Cylinder	1 40
B365.	Cap, Lower, 1¾ inch, with 1 inch Pipe Tap for Fig. 214 Cylinder	2 25
B366.	Cage for 2 inch I. D. Cylinder, Fig. 1516	40
B367.	Seat for 2 inch I. D. Cylinder, Fig. 1516	55
B368.	Drop Check for 2 inch I. D. Cylinder, Fig. 1516	55
B369.	Plunger Cap (Differential) for Pump No. 110½	1 70
B370.	Cage for Plunger on Peerless Spray Pump	65
B371.	Seat for Ball Valve on Peerless Spray Pump	65
B372.	Combination Fitting and Air Valve for Pump No. R286A	2 15
B373.	Plunger Casting, 3 inch, for No. 360 Boiler Feeder	2 15
B374.	Air Cylinder Shell for R286A	5 60
B375.	Seat for B372.	50
B376.	Check Valve for B372 and B375	35
B377.	Bushing for Shaft on Pumps Nos. 387, 378A and 379A	2 80
B378.	Cap, Lower, 4¾ inch, Tapped 3 inch Pipe for Fig. 1504 Cylinder	14 75
B379.	Cap, Upper, 4¾ inch, Tapped 3 inch Pipe for Fig. 1504 Cylinder	11 60
B380.	Plunger for Myers Electric Pump	2 80
B381.	Connecting Link for Myers Electric Pump	2 15
B382.	Stuffing Box Gland for Myers Electric Pump	1 70
B383.	Compression Cap for Myers Electric Pump	2 80
B384.	Union Nut (Crane Special) for Suction on Pump No. R316B	1 40
B385.	Valve Seat for Cylinder No. 2656	1 05
B386.	Oiler, ⅛ inch Pipe Size, for Power Pumps	65
B387.	Elbow Oiler, ⅛ inch Size, for Power Pumps	65
B388.	Cap for Oilers B386 and B387	30
B389.	Cap, Upper, 5¾ inch, Brass Cylinder, Fig. 1504	11 25
B390.	Cap, Lower, 5¾ inch, Brass Cylinder, Fig. 1504	14 75
B391.	Air Cylinder Shell for Myers Electric Pump	3 50
B392.	Bucket Plate for Air Cylinder on Myers Electric Pump	65
B393.	Lock Nut for Plunger of Air Cylinder on Myers Electric Pump	65
B394.	Oiler Body for End of Crank Shaft on Myers Electric Pump	50
B395.	Washer for Oiler B394	30

Rep. No.		Price.	Complete.
B396.	Cap for Oiler B394	$0 35	
B397.	Screw Driver Nut for Bucket Spray Pump	10	
B398.	Packing Gland on No. 391 Working Head	1 40	
B399.	Cap, Lower, 4¼ inch, Tapped 2 inch, for Cylinder, Fig. 1404	20 00	
B400.	Wing Guide Valve for Pump No. 485 (abandoned)	65	
B401.	Weight for Repair No. B400 (abandoned)	65	
B402.	Drop Valve Weight, 5½ inch, for F Plunger	2 50	
B403.	Cage for 4½ inch Plunger for Cylinder, Fig. 1391	9 45	
B404.	Coupling, Upper (⅞ inch), for Bamboo Extension	35	
B405.	Coupling, Upper (15/16 inch), for Bamboo Extension	35	
B406.	Coupling, Upper (1 inch), for Bamboo Extension (abandoned)	35	
B407.	Coupling, Upper (1 1/16 inch), for Bamboo Extension (abandoned)	35	
B408.	Pipe Coupling, Upper, for Bamboo Extension	35	
B409.	Cap, Lower, 2 inch Cylinder, Inside Attachment, All Brass (Replaces No. 409)	2 25,	2 90
B410.	Cap, Upper, 2 inch Cylinder, Inside Attachment, All Brass (Replaces No. 410)	1 75	
B411.	Valve Seat for 3 and 3½ inch House and Pitcher Spout Pumps using Bases Nos. 2805, 2834	35	
B412.	Valve Seat (3 inch) for Plunger, for Gusher Pumps (Replaces No. 1571)	1 40	
B413.	Valve Seat (3½ inch) for Plunger, for Gusher Pumps (Replaces No. 1572)	2 15	
B414.	Male End for ⅜ inch Hose, Fig. 540	40	
B415.	Coupling (1⅛ inch) for Bamboo Extension (abandoned)	65	
B416.	Packing Ring for Stuffing Box for Pump No. 323	05	
B417.	Cage for 1¾ inch Plunger, Fig. 869	1 40	
B418.	Follower for 1¾ inch Plunger, Fig. 869	2 15	
B419.	Valve, Drop Check for 1¾ inch Plunger, Fig. 869	55	
B420.	Bushing for Repair No. 2801, for Pump No. 485	7 00	
B421.	Wing Guide for Check Valve for Pump No. 485	65	
B422.	Packing Gland for Pump No. 485	1 70	
B423.	Compression Cap for Pump No. 485	3 15	
B424.	Plunger Tube, 1¾ inch O. D. x 6½ inches long	4 20	
B425.	Connecting Link for Pump No. 485	2 80	
B426.	Weight for Wing Check Valve for Pump No. 485	55	
B427.	Washer for Repair No. B394 for Pump No. 485	35	
B428.	Check Valve, Brass for Base No. 427 (Replaces No. 428)	35	
B429.	Weight for Valve No. B428 (Replaces No. 429)	35	
B432.	Valve Seat, Brass, for Base No. 427 (Replaces No. 432)	35	
B433.	Valve Seat, Brass, for Pump No. 505	2 15	
B434.	Cap for Valve, with Strainer for Pump No. R324	2 80	
B435.	Ferrule and Male End (Combination), 1⅛ inch for Bamboo Extension (Replaces B415)	65	
B436.	Ferrule and Male End (Combination), 1 1/16 inch for Bamboo Extension (Replaces B407)	65	
B437.	Ferrule and Male End (Combination), 1 inch for Bamboo Extension (Replaces B406)	65	
B438.	Nipple, for 3 inch Pipe and 3 inch Hose, Fig. 540	3 50	
B439.	Female End for ⅜ inch Hose, Fig. 1091	40	
B440.	Air Intake Valve for Pumps Nos. 378A and 379A	1 40	
B441.	Valve Seat, Brass, for Low Down Tank Pumps (Replaces No. 441)	65	
B442.	Valve for Pump No. 505 (Brass)	2 15	
B443	Strainer casting, 1″ hose	1 70	
B444.	Cross Head for Electric House Pump, No. 600	2 40	
B445.	Valve Seat for Electric House Pump, No. 600	95	
B446.	Valve Post for Electric House Pump, No. 600	35	
B447.	Plunger Casting (Inner) for Electric House Pump, No. 600	40	
B448.	Lock Nut Follower for Plunger Electric House Pump No. 600	40	
B449.	Plunger Plate (Between Leather) Electric House Pump No. 600	40	
B450.	Stuffing Nut for Electric House Pump No. 600	65	
B451.	Valve Plate for Electric House Pump No. 600	20	
B452.	Connecting Link for Eccentric Electric House Pump No. 600	3 75	
B453.	Body for Air Valve for Electric House Pump No. 600	2 15	
B454.	Thumb Screw for Air Valve Electric House Pump No. 600	50	
B455.	Bushing for connecting link for pump No. 613	1 40	
B456.	Packing Gland for Cylinder Head for Pump No. 613	65	
B457.	Cap for Piston Packing for Pump No. 613	90	
B458.	Valve Bolt for Spring for Pump No. 612 and 613	65	
B459.	Valve Plate for Rubber Valve for Pump No. 612 and 613	40	
B460.	Packing Gland for Cylinder Head for Pump No. 614 and 615	1 40	
B461.	Cap for Piston Packing for Pump No. 614 and 615	1 40	
B462.	Valve Bolt for Spring for Pump No. 614 and 615	1 05	
B463.	Valve Plate for Rubber Valve for Pump No. 614 and 615	65	
B464.	Lock Nut for 1 13/16″ Drop Valve for Cylinder Fig. 1402	10	
B465.	Lock Nut for 2½″ Drop Valve for Cylinder Fig. 1402	10	
B470.	Adjusting Screw for Relief Valve on Pump No. 600	30	
B471.	Oil Retaining Disc for Pump No. 600 (Replaces 2989)	40	
B473.	Strainer Casting for ¾″ Pipe	1 70	
B474.	Bushing for Connecting Link, Pumps 614 and 615	2 15	
B475.	Relief Valve Body for Pump No. 600	2 15	
B476.	Valve Seat for Relief Valve for Pump No. 600	2 15	
B477.	Wing Check Valve for Relief Valve on Pump No. 600	65	
B478.	Lower Spring Plate for Relief Valve	30	
B479.	Upper Spring Plate for Relief Valve	30	
B480.	Inlet Body Casting on Myers Spray Gun	2 40	
B481.	Swivel Handle Support for Myers Spray Gun	1 95	
B482.	Nozzle Body for Myers Spray Gun	1 70	
B483.	Cap (Brass) for Disk on Myers Spray Gun	1 40	
B484.	Couping ¾″ Hose Size, ¼″ Pipe for Myers Spray Gun	55	

Rep. No.		Price.	Complete.
B485.	Packing Gland for Stuffing Box on Pump 612	$0 65	
B486.	Packing Sleeve for Pump No. 612	1 70	
B487.	Bushing for Connecting Link Repair 3067	1 40	
B488.	Packing Nut for Myers Spray Gun	70	
B489.	Piston Rod, ⅜″ x 19-⅞″ for Myers Spray Gun	1 00	
B490.	Lock, Nut, Hex. ⅜″ for Myers Spray Gun	40	
B491.	Thumb Screw 5/16″ for Myers Spray Gun	15	
B492.	Lock Nut for End of Wood Handle on Myers Spray Gun	15	
B493.	Disc, Whirling, for Myers Spray Gun	1 00	
B494.	Cap, Lower, 2¾″ for 1¼″ Inside Pipe Attachment	3 15	
B495.	Nozzle Body for Spray Gun (Replaces B482)	1 70	
B496.	Cap, Upper, 3″ for 2″ Pipe Inside Attachment	2 50	
B497.	Disc, Whirling, for Spray Gun (Replaces B493)	95	
B498.	Cap, Lower, 3″ for 2″ Pipe Inside Attachment	3 50	
B499.	Swivel for Handle on Spray Gun (Replaces B481)	1 70	
B500.	Pressure Jet on Pump No. 600	30	
B501.	Cap, Lower and Elbow for Little Giant Spray Pump	2 15	
B502.	Nozzle Body for Compressed Air Sprayer	95	
B503.	Plunger Sleeve for Handy Billy Pump No. 476, 477, 478, 486, 487, 488, 496, 497, 498.	2 25	
B504.	Lock Nut on Handy Billy Pump	55	
B505.	Compression Cap Handy Billy Pump	1 10	
B506.	Valve Seat (Suction), Handy Billy Pump No. 476, 486, 496	1 70	
B507.	Valve Seat (Discharge), Handy Billy Pump No. 476, 486, 496	2 25	
B507.	Valve Seat (Suction), Handy Billy Pump No. 477, 487, 497	2 25	
B508.	Wing Valve (Suction), Handy Billy Pump No. 477, 487, 497	2 25	
B508.	Wing Valve (Discharge), Handy Billy Pump No. 476, 486, 496	2 25	
B509.	Wing Valve (Suction), Handy Billy Pump No. 476, 486, 496	1 70	
B510.	Priming Plug, ¾″, Handy Billy Pumps	55	
B511.	Drip Plug, ½″, Handy Billy Pump	40	
B512.	Retaining Ring for Plunger Barrel Compressed Air Sprayer No. 296	.30	
B513.	Support for Plunger Tube on Compressed Air Sprayer No. 296	85	
B514.	Valve Seat (Suction), for Handy Billy Pump No. 478, 488, 498	2 80	
B514.	Valve Seat (Discharge), for Handy Billy Pump No. 477, 487, 497	2 80	
B515.	Valve Seat (Discharge), for Handy Billy Pump No. 478, 488, 498	3 65	
B517.	Plug for Cock Spout on Reversible Pump Head for Casting 570	2 15	
B518.	Valve Seat for Ball Imperial Bucket Spray Pump	2 15	
B519.	Wing Valve for Discharge Handy Billy Pumps No. 477, 487, 497	3 35	
B519.	Wing Valve (Suction), for Handy Billy Pump No. 478, 488, 498	3 35	
B520.	Cap, Upper, 2¾″ for 1½″ Pipe Inside Attachment	2 15	
B521.	Cap, Lower, 2¾″ for 1½″ Pipe Inside Attachment	3 15	
B522.	Washer for Cock Spout	30	
B523.	Wing Valve (Discharge), for Handy Billy Pump No. 478, 488, 498	4 50	
B524.	Valve Seat for Cap Nos. 105 and 108	30	
B525.	Reducing Coupling 1½″ Hose to 2″ Pipe, Pumps No. 476, 486, 496	2 65	
B526.	Reducing Coupling 2½″ Hose to 3″ Pipe, Pumps No. 478, 488, 498	4 90	
B527.	Pad Eye for Pumps No. 478, 488, 498	1 05	
B528.	Lower Check Valve Seat for No. 296 Compressed Air Sprayer	65	
B529.	Plate and Pump Support for No. 298 and 395 (3/16″ x 1 1/16″), Brass	55	
B530.	Stud Bolt for Valve Seat on No. 296 Compressed Air Sprayer Rod	10	
B531.	Seat for Discharge Valve on No. R479 Tank Pump	85	
B532.	Valve Seat, Brass, for No. 612 Pump	85	
B533.	Valve Seat, Brass, for No. 613 Pump	1 10	
B534.	Valve Seat, Brass, for No. 614 Pump	1 40	
B535.	Disc Spiral for Repair B502 Nozzle Body for No. 296 Pump	55	
B536.	Plunger Stem for B502	30	
B537.	Valve Seat for Rubber Valve on Pump No. 616	3 50	
B538.	Bushing, 2¼″ I. D. x 2⅝″ O. D. x 2¼″, for No. 616	2 80	
B539.	Thumb Nut for Valve on Pump No. 296	10	
B540.	Nozzle for Handy Fire Pump	50	
B541.	Male End ⅜″ for Brass Tubing on No. 296 Compressed Air Sprayer	50	
B542.	Cap for Fig. 1862 Pipe Extension, ⅛″ Pipe, on No. 296 Pump	30	
B543.	Nozzle Body Replaces B19 on Extension 1862	50	
B544.	Packing Washer for Repair No. B502	10	

F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

Price List of Pump Repair Parts.

NOT NUMBERED.

Cylinder Parts.

Steel or Machined Brass Parts that do not have Numbers Cast on will be found under list of unnumbered parts. In ordering these parts give size and name of article and state what it is for.
By following the above you will save delay in shipment, and annoyance to yourself.

BUCKET OR PLUNGER CASTINGS.

Size in inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6
Upper Half	$0 30	$0 30	$0 30	$0 35	$0 35	$0 40	$0 50	$0 55	$0 65	$0 70	$0 85
Lower Half	30	30	30	35	35	40	50	55	65	1 00	1 00
Upper Half, Brass	70	70	85	90	1 00	1 10	1 25	1 75	2 20	2 80	3 50
Lower Half, Brass	85	95	1 00	1 00	1 15	1 25	1 40	2 20	2 50	3 50	4 00

CAGE FOLLOWERS FOR POPPET VALVES (Glass and Brass Seats).

Diameter of Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6
Brass, to hold Glass in Cap			$0 35		$0 35	$0 35	$0 40	$0 50			
Brass, with Cage, to hold Glass in Cap			70		70	70	85	1 00			
Cup, to hold Glass in Cap, Inside Attachment			85		1 10	1 10	1 40	1 75			
Cup, with Cage, to hold Glass in Cap, Inside Attachment			1 10		1 40	1 40	1 75	2 10			
Brass, with Cage for Brass Seat Perfect Valve No.	B366	B366	B284	B284	B284	B284	B299	B302	B302	B305	B308
Price	$0 40	$0 40	$0 40	$0 40	$0 40	$0 40	$0 50	$0 90	$0 90	$1 25	$2 10

CAGES FOR PLUNGERS OR BUCKETS.

Diameter of Plunger, in.	1¾	2	2¼	2½	2¾	3	3¼	3½	3¾	4	4½	5	6	7	8
Repair No.		910									1230				
Price, Iron		$0 55	$0 55	$0 55	$0 60	$0 60	$0 75	$0 75	$1 00	$1 00	$1 75	$2 25	$2 80	$4 00	$5 60
Repair No.	B417	910				B5					1230				
Price, Brass	$1 40	$1 40	$1 40	$1 40	$1 75	$1 75	$2 10	$2 45	$2 80	$3 15	$3 85	$4 55	$5 95	$8 75	12 60

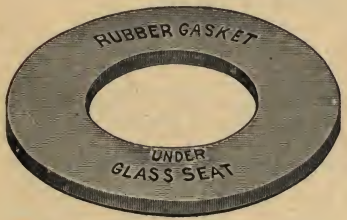
CYLINDER SHELLS.

Diameter in inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6	7	8
Polished Shell, 10″ long Price			$1 75		$1 95	$2 25	$2 25	$2 95					
Polished Shell, 12″ long Price			1 95	2 25	2 25	2 45	2 45	3 20					
Polished Shell, 14″ long Price			2 25	2 25	2 25	2 65	2 65	3 40					
Polished Shell, 16″ long Price			2 45		2 85		2 95	3 65					
Brass Lined Shell, 10″ long Price		3 75	3 75	4 20	4 40	4 65	4 90	6 30					
Brass Lined Shell, 12″ long Price		4 20	4 40		4 65	4 90	5 00	6 80	8 40	12 60	18 00		
Brass Lined Shell, 14″ long Price		4 90	4 90	5 00	5 40	5 65	5 90	7 35	9 00		20 00		
Brass Lined Shell, 16″ long Price		5 40	5 40	5 65	5 90	6 15	6 25	7 85	9 60	15 40	21 75		
Brass Lined Shell, 18″ long Price					6 30		6 80	8 40	10 50		23 50		
Brass Seamless Shell, 10″ long Price	3 75	4 05	4 05	4 75	4 75	6 30	6 30	8 10	10 50	12 55	18 00	22 50	30 00
Brass Seamless Shell, 12″ long Price	4 50	4 50	4 90	5 65	5 65	7 50	7 50	9 75	12 40	15 00	21 00	27 00	36 00
Brass Seamless Shell, 14″ long Price	5 25	5 25	5 70	6 55	6 55	8 70	8 70	11 40	14 40	17 50	24 40	31 50	42 00
Brass Seamless Shell, 16″ long Price	6 00	6 00	6 45	7 50	7 50	10 00	10 00	13 00	15 00	20 00	28 00	36 00	48 00
Brass Seamless Shell, 18″ long Price	6 75	6 75	7 30	8 50	8 50	11 25	11 25	14 65	18 55	22 50	31 50	40 50	54 00
Brass Seamless Shell, 20″ long Price	7 50	7 50	8 10	9 45	9 45	12 60	12 60	16 20	21 00	25 15	35 25	45 00	60 00

ARTESIAN SHELLS.

Diameter in inches	3	3½	4	4½	5	6
Brass Shell, 20 inch long	$ 9 75	$11 25	$15 00	$18 75	$24 00	$30 00
Brass Shell, 24 inch long	11 25	13 50	18 00	22 50	30 00	36 00
Brass Shell, 30 inch long	15 00	18 00	22 50	27 00	37 50	45 00
Brass Shell, 36 inch long	18 00	22 50	27 00	33 00	45 00	54 00

Fig. 1920



Rubber Gasket under Glass Valve Seat. State diameter of Lower Cylinder.

Fig. 1919

Expansion Rubber Disc. State diameter of Lower Cylinder. Used on Branch Pipe D. A. Pumps.

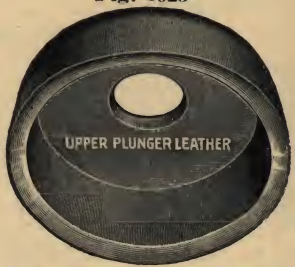
Fig. 1923

Leather Gasket above Glass Valve Seat. Give diameter of Cylinder. Also Leather Gasket for Cylinder Cap.

Fig. 1921

Brass Retainer and Rubber Facing for Poppet Check Valve. Used on Glass Valve Seat. The rubber facing also used on Perfect Valve. Always state diameter of Lower Cylinder.

Fig. 1925



Upper Plunger Leather. Used on all Double Acting Pumps. Give size of small hole and diameter of Lower Cylinder.

Fig. 1926

Lower Bucket or Cup Leather. State diameter of Lower Cylinder and state if Open or Solid Center.

Fig. 1922

Fig. 1646

Old Style Hinged Check Valve Leather. Give diameter of Lower Cylinder and state if Bolted or Screw Cap.

RUBBER VALVES FOR POWER PUMPS.

Diam. In.	Thick In.	Hole In.	For Pumps.	
1 1/8	1/4	1/8	Nos. 600, 602 and 605	$0.30
2	3/8	1/8	Nos. 612, 502 and 501	.50
2 1/8	9/16	7/16	Nos. 613, 504, 503, 362, 353 and 351	1.00
3 1/8	5/8	3/16	Nos. 614 and 505	1.25
3 3/4	5/8	1/16	Nos. 615 and 363	1.50
4 1/2	5/8	1/16	Nos. 352, 346 and 616	2.00

LEATHERS AND CANVAS BUCKETS.

Diam. Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	5½	6	7	8
Upper Plunger Leathers, Fig. 1025. Price			$ .13		$ .15		$ .19	$ .23						
Actual Outside Measurement			1¾		2 1-16		2½	2⅞						
Lower Plunger Leathers, Cup Open Center, Fig. 1026	1¾–2 .13	.14	.15	.19	.20	.23	.26	.35	.45	.55	.75	.90	1.25	1.55
Lower Plunger Cup Leathers, Solid Center								.42	.50	.65	.95	1.15	1.90	2.20
Bucket Valve Leathers	.06	.06	.06	.10	.15	.15	.15	.20	.25	.25	.40	.50	.65	
Plunger Washers	.06	.06	.06	.06	.06	.06	.06	.06	.15	.15	.15			
Set of Plunger Leathers			.34		.40		.50	.65						
Check Valve Leathers.	.15	.15	.15	.20	.22	.28	.30	.35	.43	.55	.75	1.25	1.55	
Check Valve Leathers, Old Style (Hinged) Fig. 1646		.25	.25		.30		.45	.65						
Canvas Buckets for Lower Plunger	.25	.25	.25		.30			.55		.95				
Canvas Buckets for Upper Plunger			.20		.25									
Leather Gaskets over Glass Seat, Fig. 1923		.06	.06		.06		.09	.09						
Leather Gasket for Cylinder Cap, Fig. 1923	.08	.08	.08	.08	.08	.10	.10	.14	.14	.19	.21	.25	.44	

Special or Odd Size Leathers for Tubular Well Working Barrels take same list as next larger size listed above as follows: 3¾ inch, list, $0.35; 4¼ inch, list, $0.45; 4¾ inch, list, $0.55; 5¾ inch, list, $0.90; 7¾ inch, list..... $1.55
Plunger Leathers (Cup), 1 inch, 1¼ inch and 1½ inch. List, each..... .06
Plunger Leathers (Cup), 1⅛ inch, Soft, for Compressed Air Sprayer. List, each..... .06
Plunger Leathers (Cup), 1⅛ inch, Soft, for Faultless Sprayer. List, each..... .06
Leather Gaskets for Hose Couplings up to 1 inch. List, doz..... .08
Leather Gaskets and Packing Rings for all Spray Nozzles and Male Ends. Doz..... .06

RUBBER DISCS, FIG. 1919, FOR EXPANSIVE BUCKET.

Size, Diameter Lower Cylinder in inches	2½	2¾	3	3¼	3½
Size, Diameter Upper Cylinder in inches	1¾	1¾	2 1-16	2 1-16	2½
Price	$ .25	$ .25	$ .30	$ .30	$ .45

RUBBER GASKETS, FIG. 1920 (Under Glass Valve Seat.)

Size, Diameter Cylinder in inches	2½	2¾	3	3¼	3½	3¾	4	4½
Size, Actual Outside Diameter of Gasket in inches	2 3-16	2 3-16	2⅝	2⅝	3⅛	3⅛	3¾	3¾
Rubber Gasket, to underlie Glass Valve Seat. Price	$ .06	$ .06	$ .06	$ .13	$ .13	$ .13	$ .19	$ .23

RUBBER VALVE FACING, FIG. 1921 (Under Poppet Valve.)

Size, Diameter Cylinder in inches	2	2¼	2½	2¾	3	3¼	3½	3¾	4	5	6
Rubber Facing to underlie Poppet Valve. Price	$ .06	$ .06	$ .06	$ .06	$ .06	$ .13	$ .13	$ .13	$ .19	$ .38	$ .56
Brass Retainer			.13		.13		.13		.13		
Size, Actual Outside Diameter of Gasket			1 13/16"		2"	2"	2⅜"	2⅜"	2 31/32"		

VALVES, POPPET.

Size of Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6	7	8
Iron, for Cap. Price	$ .70	$ .70	$ .70	$ .70	$ .70	$ .70	$ .70	$1.00	$1.10	$1.40	$1.75		
Brass, for Cap. Price. (abandoned)	.70	1.00	1.00	1.20	1.20	1.40	1.40	1.75	1.75	2.80	3.50		
Brass for Cap with No. Perfect Valve. Price	B368 .55	B368 .55	B286 .55	B286 .55	B286 .55	B286 .55	B301 .65	B304 .95	B304 .95	B307 2.15	B310 2.80		
Iron, for Plunger. Price	.25	.25	.25	.25	.25	.35	.35	.40	.70	.85	1.00		
Brass, for Plunger, Price	.55	.55	.60	.70	.70	1.00	1.00	1.40	1.75	2.20	2.80	4.90	7.00

VALVES, COMPLETE WITH POPPET, SEAT AND CAGE (Perfect.)

Size of Cylinder, inches	2	2¼	2½	3	3¼	3½	4	4½	5	6
Brass. Price.	$1.40	$1.40	$1.40	$1.40	$1.40	$1.75	$2.80	$2.80	$4.20	$6.30

IRON RINGS FOR CAP ON BOLTED CAP CYLINDER, FIG. 1142.

Size of Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6	7	8
Iron. Price.	$ .40	$ .40	$ .40	$ .40	$ .40	$ .40	$ .55	$ .55	$ .70	$ .85	$1.00	$1.25	$1.50

VALVE SEATS (Glass and Brass).

Size of Cylinder, inches	2	2¼	2½	2¾	3	3¼	3½	4	4½	5	6	7	8
Exact Outside Diameter, Old Style Glass Seat					3 3/8		3 7/8						
Price					$0 30		$0 50						
Exact Outside Diameter, B Series and 1894 Pattern			2 3/16	2 3/16	2 5/8	2 5/8	3 1/8	3 3/4	3 3/4				
Glass, B Series Price			$0 25	$0 25	$0 25	$0 25	$0 30	$0 70	$0 70				
Glass, Poppet Valve, 1894 Pattern Price			$0 25	$0 25	$0 25	$0 25	$0 30	$0 70	$0 70				
Brass, Ashland Poppet Valve Price	$0 70	$0 70	$0 70		$0 70		$1 00	$1 40	$1 75	$2 80	$3 50	$4 90	
Brass, Perfect Valve. No.	B285	B285	B285	B285	B285	B285	B300	B303	B303	B306	B309		
Price	$0 65	$0 65	$0 65	$0 65	$0 65	$0 65	$0 95	$1 50	$1 50	$2 15	$3 15		
Brass for Fig. 1142. No.	B367	B325	B326	B331	B332	B333	B334	B335	B336	B337	B338	B339	B340
Cylinder Price	$0 55	$0 55	$0 65	$0 65	$0 65	$1 00	$1 00	$1 40	$1 70	$2 00	$3 50	$4 90	$6 75

BRASS WORKING BARREL (Myers All Brass). Fig. 1504.

Size of Working Barrel, inches	1 13/16	2¼	2¾	3¼	3¾	4¼	4¾	5¾
Size of Well, inches	2	2½	3	3½	4	4½	5	6
Balls, Brass Price	$ 0 70	$ 0 90	$ 1 65	$ 4 50	$ 6 75	$ 8 40	$10 50	
Barrel (Brass) 10 inch Stroke Price	11 00	12 00	14 00	16 50	22 00	28 00	36 00	
Barrel (Brass) 14 inch Stroke Price	12 00	14 00	16 50	19 50	26 00	32 50	42 00	
Barrel (Brass) 24 inch Stroke Price	16 50	18 00	21 00	24 50	33 00	42 00	54 00	
Barrel (Brass) 36 inch Stroke Price	22 00	24 00	28 00	33 00	44 00	56 00	72 00	
Check Valve, Complete Price	2 45	3 50	5 25	9 45	12 60	15 40	21 70	
Leathers for Check Valve or Plunger Price	13	14	19	23	35	45	55	
Plunger, Complete Price	6 30	8 10	11 50	19 00	26 00	30 80	44 80	
Rings (Follower) for Plunger Price	50	50	55	80	1 00	1 35	1 65	

BRASS LINED WORKING BARREL (Myers). Fig. 1153.

Size of Working Barrel, Inches	1 13/16	2¼	2¾	3¼	3¾	4¼	4¾	5¾	6¾	7 1/16
Size of Well, inches	2	2½	3	3½	4	4½	5	6	7	8
Balls, Brass Price	$ 0 70	$ 0 90	$ 1 65	$4 50	$ 6 75	$ 8 40	$10 50	$12 75	$20 25	$28 50
Barrel, 10 inch Stroke Price	7 25	9 50	11 75	15 75	20 25	24 75				
Barrel, 14 inch Stroke Price	7 75	10 50	12 75	18 00	22 50	27 00				
Barrel, 24 inch Stroke Price	$ 9 75	$12 75	$15 75	$21 00	$27 00	$31 50	$40 50	$67 50	$84 00	$100 00
Barrel, 36 inch Stroke Price	11 75	15 75	19 00	25 75	31 50	38 00	45 00	78 00	95 00	110 00
Check Valve Complete Price	4 60	6 00	8 00	12 50	18 00	22 00	32 00	40 50	67 00	137 00
Leather for Check Valve and Plunger. Price	13	14	19	23	35	45	55	90	1 25	1 55
Leather Washers for Check Valve. Price	07	07	14	14	20	25	35	40	55	80
Plunger, Complete Price	6 30	8 00	11 50	19 00	26 00	30 80	44 80	53 90	100 00	182 00
Rings (Follower) for Plunger. Price	50	50	55	80	1 00	1 35	1 65	2 20	2 80	3 30

BRASS LINED WORKING BARREL (Myers).
Fig. 1402.

Size of Working Barrel, inches	1 11/16	2 1/4	2 3/4	3 1/4	3 3/4	4 1/4	4 3/4	5 3/4
Size of Well, inches	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Barrel, 10 inch Stroke.....Price..	$ 6 25	$ 7 75	$ 9 50	$10 75	$16 00	$24 00		
Barrel, 16 inch Stroke.....Price..	7 25	9 50	11 75	15 75	20 25	24 75		
Barrel, 20 inch Stroke.....Price..	7 75	10 50	12 75	18 00	22 50	27 00	34 00	56 00
Barrel, 30 inch Stroke.....Price..	9 75	12 75	15 75	21 00	27 00	31 50	40 50	67 50
Barrel, 42 inch Stroke.....Price..	11 75	15 75	19 00	25 75	31 50	38 00	45 00	78 00
Check Valve Complete.....Price..	2 75	3 40	5 00	7 50	10 75	13 20	18 26	23 60
Leathers for Check Valve or Plunger.....Price..	13	14	19	23	35	45	55	90
Plunger, Complete.....Price..	4 00	5 00	6 80	10 00	13 60	17 00	23 00	31 50
Rings (Follower) for Plunger...Price..	50	50	55	80	1 00	1 35	1 65	2 20

BRASS LINED WORKING BARREL (Myers).
Fig. 1403.

Size of Working Barrel, inches	1 11/16	2 1/4	2 3/4	3 1/4	3 3/4
Size of Well, inches	2	2 1/2	3	3 1/2	4
Barrel, 8 inch Stroke.....Price..	$ 6 25	$ 7 75	$ 9 50	$10 75	$16 00
Barrel, 14 inch Stroke.....Price..	7 25	9 50	11 75	15 75	20 25
Barrel, 18 inch Stroke.....Price..	7 75	10 50	12 75	18 00	22 50
Barrel, 28 inch Stroke.....Price..	9 75	12 75	15 75	21 00	27 00
Barrel, 40 inch Stroke.....Price..	11 75	15 75	19 00	25 75	31 50
Check Valve, Complete.....Price..	3 10	4 00	6 70	8 60	11 70
Leathers for Check Valve or Plunger.....Price..	13	14	19	23	35
Plunger, Complete.....Price..	4 30	6 70	7 90	12 50	17 00
Rings (Follower) for Plunger.....Price..	50	50	55	80	1 00

HYDRO-PNEUMATIC CYLINDERS.
Figs. 1234, 1269 and 1539.

	Price
2 1/2 inch Plunger, Complete	$ 1 40
3 inch Plunger, Complete	1 40
3 1/2 inch Plunger, Complete	1 75
1/2 inch Three-Way Cock (Brass) for 3 inch Cylinder	3 15
3/4 inch Three-Way Cock (Brass) for 3 1/2 inch Cylinder	3 75
1/2 inch Check Valve (Brass) for 3 inch Cylinder	2 70
3/4 inch Check Valve (Brass) for 3 1/2 inch Cylinder	3 15
Three-Way Rod and Handle	85

IRRIGATION CYLINDERS.
Figs. 680, 1027 and 1567.

Cylinder Shell, 6 x 18 inches	$35 00
Cylinder Shell, 6 x 24 inches	42 00
Cylinder Shell, 6 x 30 inches	49 00
Cylinder Shell, 8 x 18 inches	49 00
Cylinder Shell, 8 x 24 inches	58 50
Cylinder Shell, 8 x 30 inches	70 00
Upper Plunger Stem, 1 1/2 x 16 inch, Galvanized Pipe	70
Upper Plunger Stem, 1 x 16 inch, Galvanized Pipe	55
Lower Plunger Stem, 13/16 x 9 inch, Brass	1 40
Reducer, 1 1/2 x 1/2 inch	30
Reducer, 1 x 1/2 inch	20
Plunger Complete for 6 inch Cylinder	14 00
Plunger Complete for 8 inch Cylinder	18 00
Plunger Leathers, 6 inch	95
Plunger Leathers, 8 inch	1 75
Bucket Check Leathers, 6 inch	40
Bucket Check Leathers, 8 inch	70

FLANGES TO CONNECT 8 INCH IRRIGATION CYLINDER OR ABENDROTH & ROOT SPIRAL PIPE TO WROUGHT IRON PIPE.

	Flange, 11¼" Dia. Tap, 2" Iron Pipe	$ 4 20
	Flange, 11¼" Dia. Tap. 2½" Iron Pipe	4 20
	Flange, 11¼" Dia. Tap. 3" Iron Pipe	4 20
	Flange, 11¼" Dia. Tap. 3½" Iron Pipe	4 20
877.	Flange, 11¼" Dia. Tap. 4" Iron Pipe	4 20
	Flange, 11¼" Dia. Tap. 4½" Iron Pipe	4 20
1375.	Flange, 11¼" Dia. Tap. 5" Iron Pipe	4 20
881.	Flange, 11¼" Dia. Tap. 6" Iron Pipe	4 20
	Flange, 11¼" Dia. Tap. 7" Iron Pipe	4 20
882.	Flange, 11¼" Dia. Tap. 8" Iron Pipe	4 20
1190.	Flange, 11¼" Dia. Tap. 5⅝" Casing	4 20

DOUBLE ACTING—BRANCH PIPE PUMPS.

Number of Pump	1 and 8	R1 and R8	4 to 6 12 to 16	R4 to R6 R12 to R16	7–7½ 18	R7 R7½ R18	30 to 35	290–291	292–295
Three-Way Rod, Complete Price	$1 00	$1 00	$1 00	$ 1 00	$1 00	$1 00	$1 00	$1 00	$1 00
Bushing for Gear Wheel Price									55
Piston Rod for Plain Head Pumps Price	55	70	85	70	85	70		85	70
Piston Rod for Windmill Head Pumps Price	85	70	70	70	70	70	70		
Shaft for Crank Size									1x7⅝
Price									$1 00
Shaft for Gear Wheel Size								1x7⅝	
Price								$1 00	
Shaft for Pinion Size									1x9⅝
Price									$1 00
Windmill Bar Size	38x 1 x ½	38x 1 x ½	40x 1 x ½	38x 1 x ½	40x 1 x ½	38x 1 x ½	38x 1 x ½		
Price	$1 00	$1 00	$1 10	$1 00	$1 10	$1 00	$1 00		
Wrist Pin for Gear Wheel Price								$0 30	$0 30

COG GEAR.

Number of Pump	4-4½-12 R4-R4½-R12	5-5½-14 R5-R5½-R14	6-6½-16 R6-R6½-R16	7-7½-18 R7-R7½-R18	30-31	32-33	34-35
Upper, Cylinder Shell, Brass, for Plain Head Pump Size	1¾x8"	2 1/16x8"	2½x8"	3x8"			
Price	$1 75	$2 10	$2 45	$3 15			
Upper, Cylinder Shell, Brass, for Windmill Head Pump Size	1¾x10"	2 1/16x10"	2½x10"	3x10"	1¾x12"	2 1/16x12"	2½x12"
Price	$1 95	$2 30	$2 65	$3 35	$2 30	$2 65	$3 00

FORCE PUMPS, DOUBLE ACTING. DRILLED WELL PUMPS. SUBMERGED CYLINDER.

Number of Pump	19 to 25	26–27	40 to 44	55 to 61 69 to 77 84 to 88	R184 to R189	256–257
Three-Way Rod, Complete Price	$1 00	$1 00	$1 00			$1 00
Cylinder Shell, Brass Size			1x13			
Price			$2 25			
Piston Rod for Plain Head Pumps Price				$0 75	$0 75	
Piston Rod for Windmill Head Pumps Price	$0 85	$0 85	$1 40	$0 85	$0 85	$0 85
Windmill Bar Size	27x1x½	27x1x½	27x1x½	27x1x½	26x1x½	27x1x½
Price	$1 00	$1 00	$1 00	$1 00	$1 00	$1 00

CYLINDER SHELLS, UPPER (Inside and Outside).

Number of Pump	19–21	22–23	24–25	26–27 256–257	55–69–70 71–84 R184–R185	56–57–72 73–86 R186–R187	58–59–74 75–88 R188–R189	60–61 76–77
Cylinder Shell, Brass Size, in. (Upper Inside)	1¾x11⅜	2 1/16x11⅜	2½x11⅜	3x11⅜	1¾x9	2 1/16x9	2½x9	3x9
Price	$2 10	$2 45	$2 80	$3 50	$1 75	$2 10	$2 45	$3 15
Cylinder Shell, Upper, No.	272	276	280	510	162	167	151	516
over Submerged Price	$2 45	$2 80	$3 15	$3 50	$2 45	$2 45	$3 15	$3 15
Complete Price	$7 00	$7 35	$8 40	$10 50	$6 65	$6 65	$8 00	$9 80

CYLINDERS, COMPLETE.

Number of Pump		55	56	57	58	59	60	61
Cylinder Shell, Brass	Size	2 ½x20"		3x20"		3 ½x20"		4x20"
	Price	$7 50		$8 80		$11 75		$15 10
Cylinder, Brass (Complete)	Price	$11 00		$13 00		$16 00		$21 70
Cylinder Shell, Brass Lined	No.		352		358		360	
	Price		$4 90		$5 60		$7 00	
Cylinder, Brass Lined (Complete)	Price		$13 25		$15 50		$17 50	

GUSHER.

Number of Pumps		451	452	R451	R452
Cylinders, per set	Price	$11 00	$12 50	$11 00	$12 50
Plunger	Price	2 80	3 50	2 80	3 50
Pipe for Handle	Price	50	50	50	50
Piston Rod for Plain Head Pump	Price	75	75	75	75
Piston Rod for Windmill Head Pump	Price			75	75
Three-Way Rod Complete	Price	1 00	1 00	1 00	1 00
Windmill Bar	Size			40x1x⅜	40x1x⅜
	Price			$1 10	$1 10

THREE-WAY PUMPS.

Number of Pump		225	R225	227	R227	230	R230	233	R233
Brass Plunger Rod	Price	$1 00	$1 00					$1 00	$1 00
Piston Rod	Price	70	70	70	70	70	70	70	70
Pipe Handle	Price		50		50		50		50
Plunger Tube	Price			2 25	2 25	2 25	2 25		
Plunger for Plunger Tube	Price			85	85	85	85		
Windmill Bar (38 x 1 x ½ inch)	Price	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00

When ordering Plungers or Plunger Tubes, state size, 1 inch or 1¼ inch.

IMPERIAL AND REGULATOR.

Number of Pump		235 R235	235A R235A	237 R237	237A R237A	240	242
Three-Way Rod, Complete	Price	$1 00	$1 00	$1 00	$1 00	$1 00	$1 00
Chain, 28 inches long	Price					1 00	1 00
Chain, 9 inches long	Price					40	40
Disc, Rubber for Hydraulic Cylinder	Price					25	25
Hydraulic Cylinder, Complete	Price					9 10	9 10
Link or Straps from Handle to Rack	Price	25	25	25	25		
Piston Rod and Windmill Bar, Complete	Price	1 40	1 40	1 40	1 40	1 40	1 40
Piston Rod, Brass (½ x 16 in.)	Price	1 00		1 00		1 00	
Plunger Complete for Hydraulic Cylinder	Price					2 80	2 80
Plunger Complete for Plunger Tube	Price		85		85		85
Plunger Tube, Brass (1 x 13 in.)	Price		2 25		2 25		2 25
Relief Valve for Hydraulic Cylinder	Price					1 40	1 40
Spring for Relief Valve	Price					30	30
Spring and Chain, 9 inch, for Wire connecting with Windmill	Price					1 50	1 50
Yoke and Square Bar for Hydraulic Cylinder	Price					2 80	2 80

ASHLAND LIFT AND FORCE PUMPS.

Number of Pump		101, 101½, 102, 103, 107, 108	R101 R101½, R102, R103, R107	104, 105, 106, 109,	R104, R105, R106, R109,	200 to 205	R200 to R204	120 to 123
Stuffing Box (Brass)	Price					$0 85	$0 85	
Piston Rod (Plain)	Price	$1 00	$1 00	$1 20	$1 40	$1 20	$1 00	$1 75
Piston Rod (Wind Top)	Price	$1 00	$1 75	$1 20	$1 75	$1 20	$1 75	$1 20
Windmill Bar	Size	20x1x½		20x1x½		20x1x½		27x1x½
	Price	$0 90		$0 90		$0 90		$1 00
Valve, Drop or Poppet	No.			2578	2578			
	Price			$1 00	$1 00			

MYERS LIFT AND SINGLE ACTING FORCE PUMPS.

		124 to 131½	132 to 139½	140 to 145	R150 to R155	R170 to R175
Number of Pump						
Pipe Handle (abandoned)	Price				$0 50	$0 50
Piston Rod, Plain	Price	$1 00	$1 20		$0 90	$1 00
Piston Rod, Wind Top	Price	$1 00	$1 20	$1 00	$0 70	$0 85
Windmill Bar	Size	20x½x1″	20x½x1″	27x½x1″	27x½x1″	27x½x1″
	Price	$0 90	$0 90	$1 00	$1 75	$1 75

HOUSE PUMPS.

Number of Pump		249	R249	250	R250	251	R251	252	252½	253	R253	254	254½
Cock Spout (Complete)	Price	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10
Cylinder Shell (Brass)	Size	3x6″	3x6″	3 ½x 6″	3 ½x 6″	3x6″	3x6″	3x6″	3x6″	3 ½x 6″	3 ½x 6″	3 ½x 6″	3 ½x 6″
	Price	$4 20	$4 20	$4 90	$4 90	$4 20	$4 20	$4 20	$4 20	$4 90	$4 90	$4 90	$4 90
Cylinder Shell, Upper (Brass)	Size	1¾x 6″	1¾x 6″	1¾x 6″	1¾x 6″	1¾x 6″	1¾x 6″			1¾x 6″	1¾x 6″		
	Price	$1 75	$1 75	$1 75	$1 75	$1 75	$1 75			$1 75	$1 75		
Leather for Upper Plunger	Size	1¾″	1¾″	1¾″	1¾″	1¾″	1¾″			1¾″	1¾″		
	Price	$0 13	$0 13	$0 13	$0 13	$0 13	$0 13			$0 13	$0 13		
Leather for Lower Plunger	Size	3″	3″	3½″	3½″	3″	3″	3″	3″	3½″	3⅛″	3½″	3½″
	Price	$0 20	$0 20	$0 26	$0 26	$0 20	$0 20	$0 20	$0 20	$0 26	$0 26	$0 26	$0 26
Piston Rod	Price							$0 25	$0 25			$0 25	$0 25
Plunger Complete	Price	$2 80	$2 80	$3 15	$3 15	$2 80	$2 80	$0 85	$0 85	$3 15	$3 15	$1 00	$1 00
Stem for Cock Spout	Price	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20	$0 20
Number of Pump		220	R220	222	R222	245	R245	246½	R246½	247	R247	248½	R248$
Cylinder Shell (Brass)	Size	3x 6″	3x 6″	3 ½x 6″	3 ½x 6″	3x 6″	3x 6″			3 ½x 6″	3 ½x 6″		
	Price	$4 20	$4 20	$4 90	$4 90	$4 20	$4 20			$4 90	$4 90		
Piston Rod	Price	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25		
Plunger Complete	Price	$0 85	$0 85	$1 00	$1 00	$0 85	$0 85	$0 85	$0 85	$1 00	$1 00	$1 00	$1 00

Number of Pumps		R410	R411	R412	R413	416	418	R416	R417	R418	R419
Piston Rod	Price	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25
Plunger Complete	Price	$0 85	$0 85	$1 00	$1 00	$0 85	$1 00	$0 85	$0 85	$1 00	$1 00

CENTURY PUMPS.

Number of Pump		279 R279	285 285A	R285 R285A	286 286A	R286 R286A	462	464	473	474
Drip Plugs	Price	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35
Pipe for Handle	Price	$0 45		$0 45		$0 45				
Piston Rod, Brass Covered	Size	⅞x 10″	1⅛x 11⅝″	1⅛x 11⅝″	1⅛x 11⅝″	1⅛x 11⅝″	2pc., ea. 1⅜x10¼	2pc., ea. 1⅛x13″	1⅛x 14¾″	1⅛x 14¾″
	Price	$1 75	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10
Piston Rod for Air Cylinder	Price			$1 00		$1 00				
Plunger, Complete (Leather)	Price		$3 15	$3 15	$3 50	$3 50	$7 00	$9 10	$5 25	$4 90
Plunger, Complete (Hemp)	Price	$4 90								
Plunger for Air Cylinder	Price		$ 85	$2 80	$ 85	$2 80				
Brass Shell (Air Cylinder) 2 ⅞ x 6 inches	Price		$1 75		$1 75					
Union Two Thirds	Price		$0 40	$0 40	$0 40	$0 40				

HYDRO-PNEUMATIC PUMPS, (Vertical).

Number of Pump		378A	379A	387
Cylinder Shell, Upper (Brass)	Size	2x7½″		
	Price	$2 45		
Guide Rods	Size	1x11″	1x11″	1x11″
	Price	$0 70	$0 70	$0 70
Lining (Brass)	Size	3x9″		
	Price	$4 50		
Piston Rod, Brass	Size	⅞x13″	⅞x13″	⅞x13″
	Price	$2 10	$2 10	$2 10
Plunger, Complete	Price	$3 85	$2 45	
⅜ inch Service Tee	Price	$0 15	$0 15	
Shaft for Gear	Size	1¼x11½″	1¼x11½″	1¼x11½″
	Price	$2 10	$2 10	$2 10
Shaft for Pulleys and Pinions	Size	1⅛x21″	1⅛x21″	1⅛x21″
	Price	$2 45	$2 45	$2 45
Shut-off Cock, Two Male Ends	Price	$1 00	$1 00	
⅜ inch Union Elbow	Price	$0 35	$0 35	
Oil Cups	Price	$0 70	$0 70	$0 70

OIL AND KEROSENE PUMPS.

2 ½ inch Canvas Buckets	$0 25
2 ½ inch Cage for Plunger	55
2 ½ inch x 6 inch Brass Cylinder Shell	2 80
1 inch Female Hose Coupling	35
1 inch Hose Nipple	55
½ inch x 15 inch Steel Piston Rod (one end milled ⅛ inch)	25
Plunger, Complete	85
1 x 32 ½ inch Suction Pipe	40
Handle, Wood	70
⅛ x 13 inch Steel Piston Rod	1 40
Plunger Complete	6 65

CENTURY PUMPS.

Number of Pump	258	259	262	263	264	271	272	273	274	354	354 ½
Bolt, Brass, for Rubber Check Valve, Price	$0 25		$0 25	$0 25	$0 25					$0 25	
Bushing for Piston Rod, Price									$0 85	$0 85	$0 85
Check Valve Rubber, Price	$1 00		$1 00	$1 00	$1 00					$1 00	
Drip Plugs, Price	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35
	2 Pcs.		2 Pcs.	2 Pcs.	2 Pcs.						
Size	⅛x11	⅛x14	⅛x11	⅛x11	⅛x11⅓	⅛x13	⅛x13	⅛x13	⅛x23 ½	⅛x23 ½	⅛x23 ½
Piston Rod, Brass, Price	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10	$3 15	$3 15	$3 15
Plunger Complete, with Eye, Price	$9 80	$4 90	$8 00	$9 80	$8 75	$4 55	$4 90	$5 25	$4 90	$5 60	$4 90
Spring Coil, for Rubber Check Valve, Price	$0 15		$0 15	$0 15	$0 15					$0 15	$0 15
Stuffing Box Nut, Price	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85
Valve (Brass) and Seat Comp.						$1 40	$1 40	$1 40	$1 40		$1 40
Check Valve Leathers No. on Pumps. Price						271 ½ $1 40	272 ½ $1 75	273 ½ $2 10			
Weights for above, Price						$0 15	$0 15	$0 25			

BOILER FEED PUMP.

Plunger, Brass, 3 x 16 inches, for Double or Single Boiler Feeder	$14 00
Guide for Plunger, ⅛ x 10 inches, for Single Boiler Feeder	1 00
Shaft for Pulleys, 1 ¼ x 31 inches, for Double or Single Boiler Feeders	3 15
Shaft for Gear, 1 ½ x 12 inches, for Double or Single Boiler Feeder	1 95
Wrist Pin, ¾ x 4 inches	55
Expansion Ring Packing, 3 x 4 ¼ inches (per Ring)	70
Cap Screw, ⅝ x 3 inches	40
Cap Screw, ½ x 1 ¼ inches	20
Air Cock, ½ inch	75

BULLDOZER PUMPS.

Number of Pump	351	352 352A	353 353A	362 362A	363	371
Air Cylinder Shell, Brass, Size			3 x 12″	3 x 16″		
Air Cylinder Shell, Brass, Price			$4 90	$7 00		
Guide Rod (abandoned), Size					1 ½x28″	
Guide Rod (abandoned), Price					$4 20	
Hemp Packing for Plunger, per lb., Price	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85
Leathers for Plunger, Price	$0 40	$1 00	$0 70	$0 25	$1 00	
Lining, Brass, Size	4x14 ¾″	6x14 ⅝″	5x7″	3x13 ¼″	6x25 ⅝″	
Lining, Brass, Price	$10 50	$19 60	$7 00	$7 00	$42 00	
Lock Nuts for Piston Rod, Price	$0 15	$0 15	$0 15	$0 15	$0 20	
Wrist Pin Nut, Price						$0 20
Oil Cup, Brass, Price	$0 70	$0 70	$0 70	$0 70	$0 70	$0 70
Pin for Crosshead, Size						1 ¼x8 ¾″
Pin for Crosshead, Price						$1 40
Piston Rod (abandoned), Size					1 ½x38″	
Piston Rod (abandoned), Price					$4 90	
Piston Rod Brass Covered, Size of Entire Rod	1 ¼x38″	1 ¼x24 ½″	1 ¼x24″	1 ¼x35″	1 ½x65 ¾″	⅛x13 ⅞″
Piston Rod Brass Covered, Size of Brass Covering	1x1 ⅛x 19 ½″	1x1 ⅛x 16 ¼″	1x1 ⅛x 10 ¾″	1x1 ½x 16 ¼″		
Piston Rod Brass Covered, Price	$5 60	$5 60	$4 20	$5 60	$7 00	$2 10
Plunger for Air Cylinder, Price			$1 40	$1 40		
Plunger, Complete (Hemp) for Cylinder, Price	$9 80	$10 50	$9 80	$9 10	$12 60	
Plunger, Complete (Leather) for Cylinder, Price	$6 30	$8 40	$6 30	$5 95	$8 40	$8 40
Valve (Air), Complete, Price			$2 10	$2 10		
Valve (Check) for Air Cylinder, Price				$2 80		
Valve, Drop Valve (Rubber), Price	$1 00	$2 10	$1 00	$1 00	$1 75	
Shaft for Gears, Size	1 ½x13 ½″	2x17 ¼″	1 ½x13 ½″	1 ½x13 ½″	2x20 ⅛″	1 ½x12″
Shaft for Gears, Price	$1 95	$4 20	$1 95	$1 95	$4 90	$1 95
Shaft for Pulleys and Pinions, Size	1 ¼x32″	1 ½x28″	1 ¼x32″	1 ¼x32″	1 ½x42″	1 ¼x26″
Shaft for Pulleys and Pinions, Price	$3 15	$3 90	$3 15	$3 15	$5 60	$2 90
Springs, Brass, for Rubber Drop Valve	$0 15	$0 15	$0 15	$0 15	$0 15	
Wrist Pins, Size	¾x4 ¾″	1x6″	¾x4 ¾″	¾x4 ¾″	1x6″	¾x4 ¾″
Wrist Pins, Price	$0 55	$2 10	$0 55	$0 55	$2 10	$0 55
Paper Gaskets for Cylinder Head, Price	$0 15	$0 25	$0 15	$0 15	$0 25	$0 15
Paper Gaskets for Hood, Price		$0 40		$0 25	$0 35	

BULLDOZER, No. 500 SERIES.

Number of Pump	500 500A	501 501A	502 502A	503	504 504A	505 505A
Air Cylinder, Brass Size	2 1/16x9"	2 1/16x9"	2 1/16x9"		3x12"	3x12"
Air Cylinder, Brass Price	$3 50	$3 50	$3 50		$5 25	$5 25
Guide Rods Size	11/16x8"	11/16x10"	11/16x10"	1x9 1/4"	1 1/8x10 1/4"	1 1/8x10 1/4"
Guide Rods Price	$0 70	$1 00	$1 00	$1 40	$1 75	$1 75
Gaskets (Paper) for Cylinder Head Price	$0 15	$0 15	$0 15	$0 15	$0 15	$0 15
Hemp Price per Plunger	$0 15	$0 15	$0 15		$0 25	$0 25
Hemp Price per lb	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85
Leathers for Plunger Price		$0 20	$0 25	$0 40	$0 70	$0 70
Lining, Brass Size	2 1/16x7 1/8"	2 1/2x10 5/8"	3x10 1/8"	4x8 1/2"	5x12 1/4"	5x12 1/4"
Lining, Brass Price	$2 45	$4 55	$4 90	$10 50	$11 90	$11 90
Lock Nuts for Piston Rod Price		$0 15	$0 15	$0 15	$0 15	$0 15
Oil Cups, Brass Price	$0 70	$0 70	$0 70	$0 70	$0 70	$0 70
Piston Rod, Brass Covered Size		11/16x15 1/2"	11/16x14 1/4"	1x14 5/8"	1 1/8x16"	1 1/8x19 1/2"
Piston Rod, Brass Covered Price		$2 10	$2 10	$2 45	$3 50	$3 85
Piston Rod, Solid Brass Size	5/16x10"					
Piston Rod, Solid Brass Price	$1 75					
Piston Rod, Steel, for Air Cylinder Size	1/2x11"	1/2x11"	1/2x11"		1/2x11"	1/2x11"
Piston Rod, Steel, for Air Cylinder Price	$0 50	$0 50	$0 50		$0 50	$0 50
Plunger for Air Cylinder Price	$1 20	$1 20	$1 20		$1 40	$1 40
Plunger, Complete, for Cylinder (Hemp)	$3 85	$6 30	$6 30		$8 40	
Plunger, Complete, for Cylinder (Leather)		$3 15	$3 15	$3 85	$6 30	$6 30
Valve for Air Cylinder Price	$2 10	$2 10	$2 10		$2 10	$2 10
Valve (Check) for Air Cylinder Price	$2 45	$2 45	$2 45		$2 80	$2 80
Valve, Drop Check (Rubber) Price		$0 55	$0 55	$1 00	$1 00	$1 40
Shaft for Gears Size	1 1/8x8 1/4"	1 1/4x12 1/4"	1 1/4x12 1/4"	1 1/2x15 1/8"	1 1/2x16 1/8"	1 1/2x16 1/8"
Shaft for Gears Price	$1 75	$1 95	$1 95	$2 45	$2 45	$2 45
Shaft for Pulleys and Pinions Size	1/8x14 3/8"	1 1/8x22"	1 1/8x22"	1 1/4x26"	1 1/4x34"	1 1/4x29"
Shaft for Pulleys and Pinions Price	$2 10	$2 45	$2 45	$2 80	$3 15	$3 15
Springs, Brass, for Rubber Drop Check Price		$0 15	$0 15	$0 15	$0 15	$0 15

VERTICAL DUPLEX (Abandoned.)

	R460	480	480M
Number of Pump			
Plunger Shell, Brass Size	2 1/4x2 1/16" x7 1/4"	2 1/4x2 1/16" x7 1/4"	2 1/4x2 1/16" x7 1/4"
Plunger Shell, Brass Price	$3 75	$3 75	$3 75
Oil Cup, Brass Price	$0 70	$0 70	$0 70
Piston Rod Price		$1 40	$1 40
Plunger, Complete Price	$4 90	$4 90	$4 90
Shaft for Gear Size			1 1/8x20"
Shaft for Gear Price			$2 45
Shaft for Pulley Size		1 1/8x21"	
Shaft for Pulley Price		$2 45	

WORKING HEADS.

Number of Working Head	359	364	382	382 1/2	383	384	391 391A	392
Wrist Pin Size or No.	3/4x4 3/4"	1x6"	2 1/2x6 1/8"	2 1/2x6 1/8"	2x4 3/8"	2189	3/4x4"	3/4x4"
Wrist Pin Price	$0 55	$2 10	$5 60	$5 60	$5 60	$4 20	$0 55	$0 55
Air Cylinder Shell for No. 391A Size							1 1/4x14"	
Air Cylinder Shell for No. 391A Price							$3 50	
Air Valve for No. 391A Price							$2 80	
Guide Rod Size	1 1/4x16 1/2"		2 1/2x66 1/2"	2 1/2x66 1/2"	1 1/2x39 1/2"	1 1/2x29 1/2"		
Guide Rod Price	$1 40		$14 00	$14 00	$4 90	$3 85		
Guide Rod (abandoned) Size		1 1/2x28"						
Guide Rod (abandoned) Price		$4 20						
Piston Rod: Length of Entire Rod	1 1/4x26"	1 1/2x62"	1 3/4x52"	1 3/4x52"	1 1/4x36"	1 1/4x30"	1 1/8x34 1/2"	1 1/8x50"
Piston Rod: Length of Brass Covering	1x22 1/2"							
Piston Rod: Price	$4 90	$7 00	$8 40	$8 40	$3 85	$3 15	$2 80	$3 50
Piston Rod (abandoned) Lgth		1 1/2x36"						
Piston Rod (abandoned) Price		$4 90						
Plunger and Rod Comp. for Air Cylinder No. 391A							$3 50	
Oil Cup, Brass Price	$0 70	$0 70	$0 70	$0 70	$0 70	$0 70	$0 35	
Set Screw for Cover Lid Size			1 1/8x3 3/8"	1 1/8x3 3/8"				
Set Screw for Cover Lid Price			$1 00	$1 00				
Packing for Pipe Collar Price			$1 75	$1 75				
Packing for Stuffing Box Cap Price			$2 10	$2 10				
Packing for Discharge Flange Price			$1 00	$1 00				
Packing for Cover Lid Price					$0 70	$0 50		
Shaft for Gears Size	1 1/2x13 1/2"	2x20 1/8"	2x32 1/4"	2x32 1/4"	2 x23 3/8"	1 1/4x19 1/8"	1 1/2x16 5/8"	1 1/2x16 5/8"
Shaft for Gears Price	$1 95	$4 90	$8 40	$8 40	$6 30	$2 45	$4 20	$4 20
Shaft for Pulleys and Pinions Size	1 1/4x32"	1 1/2x42 3/8"	2 1/2x32 1/4"	2 1/2x32 1/4"	1 1/2x23 3/8"	1 1/2x19 1/8"	1 1/4x16 5/8"	1 1/4x16 5/8"
Shaft for Pulleys and Pinions Price	$3 15	$5 60	$10 50	$10 50	$3 50	$2 80	$2 80	$2 80

WORKING HEADS—Continued.

Number of Working Head		357 357½	388 388A 388G	389
Air Valve, Complete	Price		$4 20	
Cylinder Shell (Brass) for Air Cylinder (No. 388A)	Size		1¾x11″	
	Price		$5 60	
Oil Cup	Price		$0 65	
Piston Rod	Size			½x60″
	Price			$0 65
Piston Rod and Windmill Bar	Size	1⅛x56″	1⅛x43″	
	Price	$2 10	$2 45	
Plunger Complete for Air Cylinder (No. 388A)	Price		$1 75	
Plunger Complete for Plunger Tube	Price			$1 00
Plunger Tube	Size			1¼x12″
	Price			$2 45
Shaft for Gears	Size	1½x10⅝″	1¼x9″	1¼x8¾″
	Price	$2 10	$1 75	$1 75
Shaft for Pulleys and Pinion	Size	1¼x24″	1⅛x17½″	1⅛x17½″
	Price	$2 80	$2 45	$2 45
Side Arms, Steel (Regular)	Price	$2 10		
Side Arms, Steel (Long)	Price	$2 45		
Side Arm, Bail	Price		$3 50	$3 50
Washer for Wrist Pin	Price	$0 10		
Windmill Bar	Size			½x1x38″
	Price			$1 00

Number of Working Head		385	386
Guide Rod	Size	1¼x18″	
	Price	$1 40	
Piston Rod, Brass (Lower)	Size	1⅛x21″	1⅛x21″
	Price	$3 15	$3 15
Piston Rod, Steel (Upper)	Size	1x29″	1x57⅝″
	Price	$2 10	$3 50
Piston Rod, Steel (Middle)	Size	1⅛x44″	1⅛x35″
	Price	$2 45	$2 10
Number of Working Head		385	386
Oil Cups	Price	$0 65	$0 65
Wrist Pin	Price	$0 55	$0 55
Shaft for Gears	Size	1½x13½″	1½x10⅝″
	Price	$1 95	$1 95
Shaft for Pulleys and Pinions	Size	1¼x32″	1¼x24″
	Price	$3 15	$2 80

COUNTERSHAFT OR JACK.

		347	348	350	400	403	405	407
Number of Pump Jack								
Wrist Pin, Steel (abandoned on Nos. 347, 348 and 350)	Size	¾x4¾″	1x6¼″	¾x4″	2700	¾x4¾″	1x5⅜″	¾x4¾″
	Price	$0 55	$1 40	$0 50	$1 00	$0 55	$1 40	$0 55
Oil Cup, Brass (abandoned on Nos. 347, 348 and 350)	Price	$0 70	$1 75	$0 70				$0 70
Oil Cup, Plain (abandoned on No. 347)	Price	$0 15			$0 15	$0 15		$0 15
Shaft for Gear (abandoned on Nos. 347, 348 and 350)	Size	1½x12″	2x23½″	1¼x18″	1⅛x8¼″	1½x11½″	2x19¼″	1¼x9″
	Price	$1 95	$6 30	$2 10	$1 40	$2 10	$5 95	$1 40
Shaft for Pulleys and Pinions (abandoned on Nos. 347, 348 and 350)	Size	1¼x24″	2x32″	1¼x20″	1⅛x11½″	1¼x22″	1½x33½″	1⅛x17″
	Price	$2 80	$8 40	$2 10	$1 95	$2 45	$4 90	$2 10

HORSE POWER.

Shaft for Pinion No. 670, 1½ x 22 inch, 3 inch Square End, used on Fig. 736	$ 3 15
Shaft for Gear No. 673, 1½ x 19¾ inch	2 80
Shaft for Gear No. 1051, 1½ x 20 inch, used on Fig. 839	2 80
Shaft for Balance Wheel, 1¼ x 14 inch, used on Fig. 839	1 40
Lever, Wood	4 20
Frame, Wood	5 60
Wrist Pin	35
Washer	15
Oil Cup	70

HORSE POWER LOW DOWN (Abandoned).

Bushing for Piston	$ 0 85
Shaft for Gear No. 673, 1 1/2 x 19 3/4 inch	2 80
Shaft for Gear No. 1051, 1 1/2 x 20 inch	2 80
Shaft for Balance Wheel, 1 1/4 x 12 1/2 inch	1 40
Piston Rod, Brass, 13/16 x 13 1/4 inch	2 10
Pin for Master Wheel, 1/2 x 5 1/2 inch	30
Pin for Traveler Wheel, 5/8 x 2 3/4 inch	20
Pin for Crosshead, 5/8 x 3 5/8 inch	30
Frame, Wood	7 00
Lever, Wood	4 20
Wrist Pin	70
Carriage Bolts, 1/2 x 28 1/2 inch	30
Hook for Lever	70

PUMPING JACKS.

Number of Pump Jack		365	366	425	426	428	430
Wrist Pin	No.		2700		2700	2700	2700
	Price	$0 55	$1 05	$0 55	$1 05	$1 05	$1 05
Clamp for Pump (abandoned)	Price	$0 35					
Lock Nut for Wrist Pin	Price				$0 15	$0 15	
Side Arm Loop, Steel	Price			$3 50			
Side Arms, Steel (Regular) (abandoned)		$2 10					
Side Arms, Steel (Long) (abandoned)		$2 45					
Side Arms, Wood	Price		$1 05		$1 05	$1 05	$1 05
Shaft for Gears (abandoned)	Size	1 1/2x10 5/8"					
	Price	$2 10					
Shaft for Gears	Size		1 1/4x8 3/4"	1 1/2x10 5/8"	1 1/4x16"	1 1/4x16"	1 1/4x8 3/4"
	Price		$1 75	$2 10	$2 45	$2 45	$1 75
Shaft for Pinion and Pulley (abandoned)	Size	1 1/4x22"					
	Price	$2 80					
Shaft for Pinion and Pulley	Size		1 1/2x17 1/2"	1 1/4x18 1/2"	1 1/2x16"	1 1/2x21"	1 1/2x17 1/2"
	Price		$2 45	$2 45	$2 10	$2 45	$2 45

Nos. 366 1/2 and 367 1/2 (Abandoned).

Shaft, 1 1/4 x 26 inch, for No. 367 1/2	$ 2 80
Shaft, 1 1/4 x 17 1/2 inch, for No. 366 1/2	2 45
Oscillator Pipe, 1 1/4 x 30 inch	1 05
Pitman Pipe, 1 1/4 x 32 1/4 inch	1 05
Machine Bolts, 1/2 x 1 3/4 inch	15
Steel Pins, 5/8 x 10 1/2 inch	55
Steel Pins, 5/8 x 4 7/8 inch	30

Nos. 368 and 369 (Abandoned).

Pitman Pipe, 1 1/4 x 32 1/2 inch	1 05
Tap Bolts (Square Head), 1/2 x 1 inch	15

Balance of Repairs same as Myers Combination Pumping Jack, Fig. 1049.

CENTURY HYDRO-PNEUMATIC POWER PUMP.
Nos. 377 and 377A. Figs. 1587, 1588, 1594.

Air Valve, Complete (abandoned)	$ 1 40
Air Valve, Complete	4 20
3/8 inch Check Valve	2 45
Lining, Brass (3 x 8 3/4 inches)	2 80
Piston Rod (Brass Covered), 13/16 x 11 5/8 inches, for Cylinder Plunger	2 10
Pipe Handle	50
Plunger for Cylinder	3 15
Plunger for Air Cylinder	1 75
Shaft for Gears, 1 1/4 x 12 1/4 inches	1 95
Shaft for Pulley and Pinion, 1 1/8 x 17 1/2 inches	2 10
Shell, Brass, for Air Cylinder, 2 1/2 x 5 3/4 inches	2 10
Side Arm Loop	3 50

SIPHON PUMPS.

Number of Pump		159	160	161	162	163	164	165	S159	S160	S161	S162
Cylinder, Complete	Price	$14 00	$15 40	$17 85	$21 00	$21 00	$27 65	$35 00	$14 00	$15 40	$17 85	$21 00
Cylinder Shell	Size	2x 16 1/2"	2 1/2x 16 1/2"	3x 16 1/2"	3 1/2x 17 1/2"	3 1/2x 20"	4x20"	4 1/2 x21"	2x 16 1/2"	2 1/2x 16 1/2"	3x 16 1/2"	3 1/2x 17 1/2"
	Price	$5 60	$6 00	$7 00	$9 30	$9 30	$12 00	$14 00	$5 60	$6 00	$7 00	$9 30
Air Cock	Price	$0 75	$0 75	$0 75	$0 75	$0 75	$0 75	$0 75				
Plunger, Complete, all Brass	Price	$5 45	$5 45	$6 10	$8 40		$10 15	$12 95	$5 45	$5 45	$6 10	$8 40
Plunger Stem, Brass Covered	Size	13/16 x21"	13/16 x21"	13/16 x21"	13/16 x21"	13/16 x25"	13/16 x25"	13/16 x25"	13/16 x21"	13/16 x21"	13/16 x21"	13/16 x21"
	Price	$3 15	$3 15	$3 15	$3 15	$3 50	$3 50	$3 50	$3 15	$3 15	$3 15	$3 15
Piston Rod	Size								13/16x 46 1/2"	13/16x 46 1/2"	13/16x 46 1/2"	13/16x 46 1/2"
	Price								$1 75	$1 75	$1 75	$1 75
Guide Rod, Steel	Size	13/16x 15 1/2"	13/16x 15 1/2"	13/16x 15 1/2"	13/16x 15 1/2"							
	Price	$1 40	$1 40	$1 40	$1 40							
Rubber Gasket for Head		$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35
Rubber Gasket for Collar		$0 30	$0 30	$0 30	$0 30	$0 30	$0 30	$0 30	$0 30	$0 30	$0 30	$0 30
Union Tee, 1 1/4 in.	Price								$ 1 05	$1 05	$1 05	$1 05

SIPHON PUMPS—POWER.

Guide Rods, ⅛ x 9 inch ..... $ 0 70
Piston Rod, Brass Covered, ⅛ x 29 inch 3 50
Pulley, 4 x 30 inch 11 90
Pulley Shaft, 1 ½ x 16 ½ inches 2 45
Balance of Repairs find under Siphon Pumps, page 400.

MYERS VERTICAL ELECTRIC HOUSE PUMPS—SINGLE ACTING.

Horizontal Air Valve, Complete ..... $ 4 20
Hard Oil Grease Cup (Special), Complete 1 05
Plunger Leather, 1 ¼ inch 15

POWER TANK PUMPS.

Drip Plug 35
Handle, Wood 1 40
Leather for Plunger (Regular) 65
Leather for Plunger (Solid Center) 70
Lining, Brass 4 20
Nut, Hexagon (½ inch Pipe Size) for Plunger 15
Piston Rod, Steel (⅛ x 13 inch) 1 40
Paper Gasket for Cylinder Head 15
Plunger, Complete 3 85
Rubber Face for Drop Check Valve 05
Rubber Gasket for Cylinder Head 35
Side Arm, Loop Steel 3 50
Shaft for Gear (Stroke), 1 ¼ x 15 ¼ inches 2 10
Shaft for One Pulley, 1 ⅛ x 20 inches 2 45
Shaft for Two Pulleys, 1 ⅛ x 25 inches 2 80
Shaft for Drive Gear, 1 ⅛ x 21 inches 2 45

VERTICAL POWER FORCE PUMPS.

Number of Pump	340	340 ½	341	341 ½	344	344 ½	345	345 ½
Plunger, Complete ..... Price	$5 45	$5 45	$6 60	$6 60				
Plunger Guide, Complete ..... Price					$5 45	$5 45	$6 60	$6 60
Piston Rod, Wrought (14 ⅛ in. long) ..... Price	$2 10		$2 10		$2 10		$2 10	
Piston Rod, Wrought (12 ⅛ in. long) ..... Price		$2 10		$2 10		$2 10		$2 10

JACK (Walking Beam.) Nos. 358 and 358 ½ (Abandoned.)

1 ½ inch Cap (Pipe) ..... $ 15
1 ½ inch Tee 35
1 ½ x 2 ½ inch Nipple 20

FLANGES FOR SET LENGTH WORKING HEAD.

Flange, 7 ½" dia. Tapped 1 ¼" Pipe .. $2 80
Flange, 7 ½" dia. Tapped 1 ½" Pipe .. 2 80
912. Flange, 7 ½" dia. Tapped 2" Pipe .. 2 80
Flange, 7 ½" dia. Tapped 2 ½" Pipe ... $ 2 80
872. Flange, 7 ½" dia. Tapped, 3" Pipe ... 2 80
873. Flange, 7 ½" dia. Tapped 4" Pipe ... 2 80
Bucket Plate, ¾ x 2 ½ x ⅞ inch 50
⅛ x ½ inch Rod Coupling 15
Brass Oil Cups 70
Brass Shell, 2 ⅛ x 12 inch 4 20
Shaft for Gear, Square End, 1 ½ x 17 ½ inch for Nos. 358 and 358 ½ 2 80
Shaft for Pulleys, 1 ¼ x 17 ¼ inch, for No. 358 ..... 2 45
Shaft for Pulleys, 1 ¼ x 26 inch, for No. 358 ½ 2 80
Piston Rod, Steel, ⅛ x 18 ¾ inch 1 75
Plunger Rod, Steel, ⅛ x 17 ½ inch 1 75
Air Chamber Pipe, 1 ½ x 53 inch 2 80
Discharge Pipe, 1 ½ x 50 inch 2 80
Pin for Traveler Wheels on Crosshead, ½ x 7 ½ inch 30
Pin for Crosshead, ¾ x 4 inch 30
Wrist Pin, ¾ x 4 ¾ inch 55

WORKING HEADS—Nos. 275, 276 and 278.

Guide Post, Steel, ⅛ x 20 inch 2 10
Guide Post, Steel, ⅛ x 26 inch 2 80
Piston Rod, Brass Covered, ⅛ x 21 inch 3 15
Piston Rod, Brass Covered, ⅛ x 27 ½ inch 3 15
Stuffing Box Nut, Brass 85
Reducer, ⅛ x ⅜ inch Rod 40
Reducer, ⅛ x ½ inch Rod 40
Piston Rod, Steel, 1 ⅛ x 60 inch 4 20
Piston Rod, Steel 2 10
Plunger Tube, Brass, 1 ¼ inch 2 45

SPRAY PUMPS.

Number of Pump	305	305B	R318
Air Chamber, Price	$2 80	$2 80	$2 80
Brass Balls, Price	$0 30	$0 30	$0 30
Cylinder Shell, Brass, Price	$2 10	$2 10	$2 10
Discharge Tube, Brass, Price	$1 40	$1 40	$1 40
Plunger, Hemp Packed, Price	$3 50	$3 50	$3 50

Number of Pump	300 to 302	310 to 312
Agitator Tip, Price	$0 35	$0 35
Agitator Pipe, Price	$0 40	$0 40
Agitator Rod, Price	$0 25	$0 25
Cylinder Shell, Upper, Size	1¾x6 in.	1¾x12 in.
Cylinder Shell, Upper, Price	$1 75	$2 10
Cylinder Shell, Lower, Size	2½x5¼ in.	2½x5¼ in.
Cylinder Shell, Lower, Price	$3 50	$3 50
Plunger, Price	$4 20	$4 20
Shut-off Cock, Price	$0 85	$0 85
Water Cart Wheels, Price	$3 50	$3 50
Water Cart Wheels, Wide Tire, Price	$4 20	$4 20

Number of Pump	R299B	307	308	R307	R308
Air Chamber, 2½ x 30½ inches, Price	$2 45	$2 45	$2 45	$2 45	$2 45
Plunger Rod, Price	$0 35	$0 70	$0 70	$0 35	$0 35
Plunger, complete, Price	$4 90	$4 90	$4 90	$4 90	$4 90
Brass Ball, Price	$0 55	$0 55	$0 55	$0 55	$0 55
Brass Shell, 2¼ x 8½ inches, Price	$2 45	$2 45	$2 45	$2 45	$2 45
Bolt Clamp, Price	$0 35	$0 35	$0 35	$0 35	$0 35
Hose Nipple, ¾ inch, Price	$0 55	$0 55	$0 55	$0 55	$0 55
Thumb Screws, Price	$0 20	$0 20	$0 20	$0 20	$0 20

BUCKET SPRAY PUMPS.

Number of Pump	315	319	323	324	R324	325	327½	329	R329
Air Chamber, Brass, Size									
Air Chamber, Brass, Price	$2 80	$1 40	$1 40	$1 40	$1 40	$1 40	$1 40	$1 40	$1 40
Ball Valve, Brass, Price	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35	$0 35
Ball Valve, Rubber, Price							$0 20		
Can, Price								$8 40	$8 40
Cylinder, Brass, Size									
Cylinder, Brass, Price	$1 40	$1 00	$1 40	$1 00	$1 40	$1 40	$1 40	$1 00	$1 40
Discharge Tube, Brass, Size									
Discharge Tube, Brass, Price	$0 65			$0 65	$0 65	$0 65	$0 65	$0 65	$0 65
Plunger, less Handle, Price	$0 40	$0 85	$1 40	$0 40	$0 70	$0 40	$0 40	$0 40	$0 70
Plunger Leather, Price	$0 06	$0 06	$0 06	$0 06	$0 06	$0 06	$0 06	$0 06	$0 06

CALIFORNIA FAVORITE.

Piston Rod, Brass, ⅛ x 23½ inch	$ 3 15
Stuffing Box Nut, Brass	85
Drip Plug	35
Plunger Leather	20
Check Valve Rubber	15
Hexagon Lock Nut	15
Plunger, Complete, with Eye for Piston Rod	4 75
Cap Screw, ½ x 1 inch	15
Steel Pin, ½ x 6½ inch	25
Steel Pin, ½ x 4¼ inch	20
Steel Pin, ½ x 3¼ inch	20
Handle, Steel	5 60

Number of Pump	R309	313	R316B	R317B	R438	439
Drip Plugs, Price	$0 25	$0 25	$0 25	$0 25	$0 25	$0 25
Agitator, Price			$1 40	$1 40		
Guide Rods, Size						
Guide Rods, Price		$0 70				$0 70
Pipe for Handle, Price	$0 35		$0 35	$0 35	$0 35	
Piston Rod, Size	⅛x10″	⅛x10″	⅛x10″	⅛x10″	13/16x11¾″	13/16x11¾″
Piston Rod, Price	$1 75	$1 75	$1 75	$1 75	$2 10	$2 10
Plunger (Hemp Packed), Price	$4 90	$4 90	$4 90	$4 90	$7 35	$7 35
Union Elbow, Price			$0 90	$0 90		
Union Two-Thirds, Price			$0 40	$0 40		
Lining, Brass, Size	2x7⅝″	2x7⅝″	2x7⅝″	2x7⅝″	2½x9¾″	2½x9¾″
Lining, Brass, Price	$2 45	$2 45	$2 45	$2 45	$4 20	$4 20

SPRAY PUMPS—Nos. 338 and 339 (Abandoned).

Brass Rod, 11/16 x 23 1/2 inch	$ 3 15
Steel Handle, 44 inches long	5 60
Bushing for Piston	85
Brass Stuffing Nut	85
Cap Screws, 1/2 x 1 inch	15
Bolts, 1/2 x 1 3/4 inch	35
Drip Plugs	35
Steel Pin, 1/2 x 6 inch	20
Steel Pin, 1/2 x 4 inch	20
Steel Pin, 1/2 x 3 inch	20
Handle Rod, 3/8 x 13 1/2 inch	40
Wood Handle Grip	20
Set Screws	20

POWER SPRAY PUMPS (Automatic).

Number of Pump		449	450	460	459
Belt Tightener, Complete	No. Price	$4 90	$4 90		$4 90
Coupling, 1 inch Pipe (Discharge)	Price		$0 15		
Double Cut-off Cock (Brass)	Price	$3 50	$3 50	$3 50	$3 50
Elbow, 1 inch Street (Suction)	Price	$0 20			$ 20
Elbow (Suction and Discharge)	Size Price		1 1/4x1" $0 35	1 1/2x1" $0 50	
Hose Nipple, 1 inch (Brass)	Price	$0 55	$0 55	$0 55	$ 55
Nipple, 1 x 3 inch Pipe (Discharge)	Price		$0 20		
Nipple, Pipe (Suction and Discharge)	Size Price		1 1/4x1" $0 20	1 1/2x1" $0 30	
Oil Cup (Brass)	Price	$0 70	$0 70	$0 70	$ 70
Pin (Steel) for Automatic Controller	Price	$0 50	$0 50	$0 50	$ 50
Pin (Steel) for Plunger	Price	$0 35	$0 35	$0 35	$ 35
Plunger, Complete	Price	$6 65	$7 70	$7 70	$6 65
Plunger, Complete (abandoned)	Price		$7 70		
Plunger Shell, 1 13/16" I D x 2" O D x 6 1/8"	Price	$3 15			$3 15
Plunger Shell, 2 1/4" I D x 2 7/16" O D x 7 1/2"	Price		$3 80	$3 80	
Pulley (Wood) for Belt Tightener	Price	$0 35	$0 35		$ 35
Shaft for Pinion and Pulley	Size Price	1 1/8x25" $2 80	1 1/8x25" $2 80	1 1/4x36" $4 20	$3 40
Spring for Belt Tightener	Price	$0 50	$0 50		$ 50
Spring for Pressure Controller, 2 11/16 x 7"	Price	$1 40	$1 40	$1 40	$1 40
Spring Rod (abandoned)	Price		$1 00		
Union, 2-3 for Air Chamber	Price	$0 40			$ 40

POWER SPRAY PUMPS (Duplex).

Number of Pump		R440	R441	R442	435	436	445	446	447	448
Plunger Shell, Brass	Size, Inches Price	2 1/4x2 7/16x7 1/4 $3 80		1 13/16x2x7 7/8 $3 15	1 13/16x2x7 7/8 $3 15		2 1/4x2 7/16x7 1/2 $3 80			
Double Cut-off	Price	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50
Handle	Price	$1 40	$1 40	$1 40						
Oil Cup, Brass	Price				$0 70	$0 70	$0 70	$0 70	$0 70	$0 70
Piston Rod	Price			$1 40	$1 40	$1 40	$1 40	$1 40	$1 40	$1 40
Plunger, Complete	Price	$4 90	$4 90	$4 90	$4 90	$4 90	$4 90	$4 90	$4 90	$4 90
Shaft for Gear	Size Price				7/8x17 1/2" $2 10			1 1/8x20" $2 45		
Shaft for Pulley	Size Price				7/8x19" $2 10		1 1/8x21" $2 45			

SPRAY RIGS.

Number of Spray Outfit		1	2	10	12
Number of Pump used		446	436	436	436
Chain for Sprocket Wheel No. 55 (abandoned)	Price	$1 40	$1 40	$1 40	$1 40
Chain for Sprocket Wheel No. 32	Price	$1 40	$1 40	$1 40	$1 40
Cross Valve	Price	$4 90			
Globe Valve, 1 inch	Price	$2 75	$2 75	$2 75	$2 75
Paddle, Wood	Price	$0 70	$0 70	$0 70	$0 70
Pulley (Wood), 4 x 1 1/8 inch, for Chain Tightener	Price	$0 30	$0 30	$0 30	$0 30
Shaft for Agitator	Size Price	11/16x59" $2 45	11/16x59" $2 45	11/16x49" $2 10	11/16x49" $2 10

Shaft for Pinion and Belt Pulley, 3/4 x 9 inch for Agitator	$ 0 40
Paddle, Wood for Agitator	70
Pulley (Wood) for Belt Tightener	35
Spring for Belt Tightener	50
Belt Tightener, Complete	4 90

HYDRAULIC SPRAY PUMP.

Air Chamber, 8 x 36½ inch	$14 00
Discharge Pipe, ¾ x 36½ inch	1 40
Brass Cylinder, 2½ x 12 inch	5 60
Flat Rod Oscillator, ½ x 1 x 25 inches	1 40
Plunger, Hemp Packed	5 60
Hose Coupling, Female End	70
Nipple, ¾ x 2 inch	30
Drip Cock, ⅛ inch Pipe Size	70
Tee, ¾ inch	20
Stay Rod, ⅜ x 24 inch, Steel, with Two Nuts	35
Globe Valve, ¾ inch	2 00
Brass Nipple, 1 inch Pipe x 1 inch Hose	70
Brass Nipple, ¾ inch Pipe x ¾ inch Hose	40
Cut-off Cock, ¼ inch	1 20
Air Cock, ⅛ inch	90
Feed Pipe, ¾ x 27 inch	1 40
Air Feed Pipe, ¼ x 24 inch	1 05
Nipple, ¾ x 7¾ inch	35
Nipple, ¾ x 5½ inch	20
Large Bolts for Air Chamber 3 ft. 3⅜ inch long x ⅝ inch	85
Small Bolts to Stay Top of Cylinder	55
Machine Bolts, ½ x 1¾ inch (Hexagon Nuts)	15
Machine Bolts, ⅝ x 5¾ inch	20
Handle, Wrought	4 20
Piston Rod with Eye	1 05

HORIZONTAL POWER SPRAY PUMPS.

		343	343G	443	443G	580
Number of Pump						
Double Cut-off	Price	$3 50	$3 50	$3 50	$3 50	$3 50
Guide Rods	Size	1¹³/₁₆x10″	1¹³/₁₆x10″	1¹³/₁₆x8″	1¹³/₁₆x8″	1¹³/₁₆x8″
	Price	$1 05	$1 05	$0 70	$0 70	$0 70
Leathers for Plunger	Price	$0 20	$0 20			
Lining, Brass	Size	2½x10⅝″	2½x10⅝″	2x7¾″	2x7¾″	2x7¾″
	Price	$4 55	$4 55	$2 45	$2 45	$2 45
Oil Cups	Price	$0 70	$0 70	$0 70	$0 70	$0 70
Piston Rod (Brass)	Size			1⅛x10″	1⅛x10″	1⅛x11½″
	Price			$1 75	$1 75	$2 10
Piston Rod (Brass Covered)	Size	1¹³/₁₆x13″	1¹³/₁₆x13″			
	Price	$2 10	$2 10			
Plunger, Complete	Price	$7 00	$7 00	$4 90	$4 90	$4 90
Shaft for Gears	Size	1¼x12¼″	1¼x12¼″	1⅛x8⅛″	1⅛x8⅛″	1⅛x8¼″
	Price	$1 95	$1 95	$1 75	$1 75	$1 75
Shaft for Pinions and Pulleys	Size	1⅛x22″	1⅛x22″	1⅛x14¾″	1⅛x14¾″	1⅛x11½″
	Price	$2 45	$2 45	$2 10	$2 10	$1 75
Wrench for Valve Cap	Price			$1 05		

KNAPSACK AND FOUNTAIN SPRAYERS.

Bulb, rubber, for Fountain Spray Pump	$ 0 85
Hose, per foot, for Fountain Spray Pump	35
Spiral Wire Hose Guard, for Fountain Spray Pump	20
Shut-Off for Hose, for Fountain Spray Pump	20
Plug, ¼ inch for Fountain Spray Pump	15
Wrought Lever	1 05
Pump, Complete	$ 8 40
Tank, Copper	11 20
Tank, Galvanized	4 20
Lid, with Handle	35
Strainer Cup, Complete	70
Short Strap and Ring riveted on	20
Strap with Buckle	70
Strap with Buckle and Snap	70

SPRAY PUMP No. 342 (Abandoned).

Pulley Shaft, 1¼ x 26 inch	$ 2 80
Gear and Crank Shaft, 1½ x 12½ inch	1 95
Plunger	8 40
Piston Rod, Brass Covered, ¹³/₁₆ x 13⅛ inch	2 10
Bushings for Wrist Pin	$ 1 40
Wrist Pins	55
Cross Head Pin, 1¼ x 8¾ inch	1 40
Stuff Nut, Brass	85

WHEELBARROW SPRAYERS.

Agitator, Complete	$ 1 40
Can, Galvanized	7 00
Clamp to attach Agitator to Piston Rod	20
Wheel (for No. R336B)	2 80
Wheel (for No. R337B)	2 10
Wheel Barrow Frame	7 00

Balance of Repairs under No. R318B

POTATO SPRAYERS.

Board	$ 1 05
Connecting Link or Rod	20
Steel Frame or Yoke	3 50
Nozzle Support	70
Rod	85
Pipe, ½ inch	30

MYERS POWER SPRAY GUN.

Fig. 1824.

Rep No.		
B480	Main Body Casting	$ 2 40
B481	Swivel Handle Support	1 95
B482	Nozzle Body	1 70
B483	Cap for Nozzle Body	1 40
B484	Connection ¾″ Hose x ¼″ Pipe	55
B488	Packing Nut	70
B489	Piston Rod 19⅞ x ⅜″	1 00
B490	Hex. Lock Nut, ⅜″	40
B491	Thumb Screw ¼″	$ 15
B492	Lock Nut	15
B493	Whirling Disc	1 00
M215	Steel Disc (Special)	08
	Brass Barrel (Tube)	1 70
	Ferrule 1⅛ x ¼″	15
	Hand Grip (Wood)	35
	Nozzle Disc Gasket	05

PUMP STANDS.

Number of Stand		96	98	110	110½	115	115½	116	117
Stuffing Box Nut	Price	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85	$0 85
Piston Rod	Price	$0 70		$0 70	$0 70				
Piston Rod and Windmill Bar	Price		$2 10			$2 10	$2 10	$2 10	$2 10
Plunger Tube, Brass, for Differential	Price					$1 75	$1 75	$1 75	$1 75

COCK SPOUTS FOR HOUSE PUMPS AND STANDS

Brass Nut for Cock Spout $0 55
Fig. 911, Cock Spout, Steel Stem, 7/16 x 4 3/4 inch (Threaded 3 inch) 20
Fig. 1185, Cock Spout, Rubber Face for Valve 15

Number of Stand		97	99	111	112	113	118	119
Piston Rod	Price	$0 70		$0 70			$1 40	$1 40
Piston Rod and Windmill Bar	Price		$2 10		$2 10	$2 10		
Windmill Bar	Price							$1 05

No. of Stand	R96	R97	R98	R99	R110	R110½	R111	R112	R113	R115	R115½	R116	R117
Piston Rod and Windmill Bar only.....Price	$1 75	$1 75	$2 10	$2 10	$1 75	$1 75	$1 75	$2 10	$2 10	$2 10	$2 10	$2 10	$2 10

DEFIANCE.

Defiance Stand, (Give Number of Stand).

Piston Rod and Windmill Bar, Complete (Give Number of Stand) $2 45
Brass Stuff Nut $0 85
Plug for Back Outlet, 2 1/2 inch 55
Steel Rod and Flat Bar, 47 inches long (Rod 11/16 inch, Flat Bar 1/2 x 1 inch) 2 10
Cap Bolt, 1/2 x 1 1/2 inch 15
Machine Bolt, 1/2 x 3 inch 20
3/8 inch Set Screw 20
Steel Pin, 1/2 x 3 1/8 inch 20
Windmill Pins 15

No. 270. Fig. 875 (Abandoned).

Cap Screw, 1/2 x 1 inch Square Head $0 15
Cap Screw, 1/2 x 1 1/2 inch Hexagon Head 15
Drip Plug 35
Hexagon Nut 1/2 inch Pipe Size 15
Handle, Wood 70
Leather, Check Valve 2 10
Leather for Plunger (Regular) 65
Leather for Plunger (Solid Center) 70
Piston Rod, 11/16 x 12 1/2 inch 1 40
Steel Pin, 1/2 x 3 1/4 inch 20
Steel Pin, 1/2 x 4 1/4 inch 30
Steel Pin, 1/2 x 6 1/2 inch 30
Weight for Leather Check Valve 30

TANK PUMPS.

Drip Plug $0 35
Handle, Wood 0 70
Handle, Tee (Wood) 1 05
Leather for Plunger (Regular) 0 65
Leather for Plunger (Solid Center) 0 70
Lining, Brass 4 20
Nut, Hexagon (1/2 inch Pipe Size) for Plunger 0 15
Piston Rod, Steel (11/16 x 14 inch) 1 40
Paper Gasket for Cylinder Head 0 15
Plunger, Complete 3 50
Rubber Face for Drop Check Valve 0 05
Rubber Gasket for Cylinder Head 0 35

VERTICAL FORCE PUMPS.

Nos. 211-218-1015 to 1018.

3 inch Plunger $4 90
3 1/2 inch Plunger 6 85
Brass Covered Piston Rod, 11/16 x 19 inch 2 80
Flat Rod, 1/2 x 1 x 20 1/2 inch, Threaded one end, 1/2 inch Rod 1 05
Flanged Galvanized Tube 70
Offset Bolt, 1/2 x 1 5/8 inch 15
Cap Screw, 1/2 x 1 1/8 inch 20
Malleable Pin 15
Steel Pin, 1/2 x 3 1/4 inch 20
Steel Pin, 1/2 x 3 5/8 inch 20
Valve Seat and Valve, complete 1 75

MISCELLANEOUS.

Bar, Flat, 1/2 x 1 x 36 inches for Windmill Pump 1 05
Bar, Flat, 1/2 x 1 x 20 inches for Windmill Pump 90
Bar, Flat, 1/2 x 1 x 27 inches for Windmill Pump 1 00
Bar, Flat, 1/2 x 1 x 38 inches for Windmill Pump 1 00
Bar, Flat, 1/2 x 1 x 40 inches for Windmill Pump 1 10
Crank Screw for Pipe Vise 75

F. E. MYERS AND BRO.
ASHLAND, OHIO, U.S.A.

Hay Tool Repair List.

Numerically Arranged.

Rep. No.			Price
B		Spear, Old Style Grapple Fork (abandoned)	$ 2 65
C		Crown, one half, for Ashland Single Steel Track, Combination Wood Track, Combination Steel Track and Myers Single S. T. Carriers	1 95
CC		Crown, one half, for Ashland Single Steel Track, Combination Wood Track, Combination Steel Track and Myers Single S. T. Carriers	1 95
CS		Fork Pulley, complete for Combination Carrier, Wood and Steel Track	1 40
E		Knocker for New Myers Carrier, Iron Track	65
F		Trip for Old Style Grapple Fork	60
H		Fork Pulley for Reversible Wood and Reversible Steel Track Car	1 40
I		Head for Old Style Grapple Fork	2 65
J		Lock Trip for Reversible Steel and Reversible Wood Track Carriers	85
JC		Lock Trip for Combination Carrier, Wood Track	1 05
JSC		Lock Trip for Combination Carrier, Steel Track (abandoned)	1 05
L		Main Frame, Left Side, New Myers Carrier, Wood Track, with Wheels and Gudgeons	3 50
M		Main Frame, Right Side, New Myers Carrier, Wood Track, with Wheels and Gudgeons	3 50
O		Main Frame, Right Side, New Myers Carrier, Iron or Cable Track, with Wheels and Gudgeons	3 50
OK		Malleable Frame, one side, for Reversible Steel Track and Reversible Cable Carriers	3 50
P		Stop Latch, New Myers Carrier, all kinds	2 65
Q		Stop to prevent Trip from coming out of Head, Old Style Grapple Fork	40
R		Stop Clamp for New Myers Carrier	30
SRC		Main Frame for Combination Carrier, Steel Track (see H 216)	7 05
T		Main Frame, Left Side, for New Myers Carrier, Iron or Cable Track, with Wheels and Gudgeons	3 50
T	4.	Lower Half of Hook Clamp, for Track Hook	10
T	5.	Upper Half of Track or Hook Clamp	10
T	6.	Lower Half of Track Clamp	10
T	7.	Upper Half of Joint Clamp	10
T	8.	Lower Half of Joint Clamp	10
U		Rope Bell Crank for New Myers Carrier	2 65
V		Load Latch for New Myers Carrier	1 95
W		Knocker for New Myers Carrier, Wood Track	65
WC		Main Frame for Combination Carrier, Wood Track (abandoned—now H 244)	7 05
XX		Malleable Frame, one side, for Reversible Carrier Wood Track	3 50
Y		Fork Pulley, complete for New Myers Carrier	1 40
H	4.	Trip Lever for Regular Fork, Harpoon	60
H	7.	Clevis for Fork Pulley	40
H	8.	Right Half, Main Frame, for New Myers Carrier, S. T., with Wheels and Gudgeons	3 50
H	9.	Left Half, Main Frame, for New Myers Car, S. T., with Wheels and Gudgeons	3 50
H	10.	Rope Hitch, Swivel	60
H	11.	Latch Plate, Upper California Fork (abandoned)	1 40
	12.	Barb, all D. H. Forks except Alfalfa and Lock Lever	40
H	12.	Latch Plate, Lower, California Fork (abandoned)	1 05
H	13.	Bracket for Bail, California Fork	60
H	15.	Brace for Middle Prong, California Fork	60
H	16.	Latch, California Fork (abandoned)	55
H	17.	Rope Hitch to Latch, California Fork (abandoned)	30
H	18.	Brace, Left Side, End Prong, California Fork	60
H	19.	Brace, Right Side, End Prong, California Fork	60
H	21.	Cable Knocker (⅝ inch), New Myers Car (abandoned)	1 40
H	24.	Guard to Spear on Nellis Fork	60
H	25.	Latch that registers in Latch on Nellis Fork	40
H	26.	Small Trigger on Nellis Fork	65
H	27.	Hinge Bar for Nellis Fork	1 05
H	28.	Head and Plunger for Nellis Fork	2 15
H	37.	Rafter Bracket, Malleable	10
H	38.	Trip Lever on Sprouts, Shear Fork	1 05
H	41.	Hook for Rafter Grapple	1 25
H	42.	Spreader for Rafter Grapple (abandoned)	1 25
H	43.	Pulley Hook for Rafter Grapple	1 25
H	44.	Hanging Hook (two pieces) and Bolt, Ashland Car	30
H	45.	Lock Trip, Ashland Car	1 65
H	46.	Knocker (two pieces) with Bolt for Single Rail	65
H	48.	Main Frame for Ashland Car, with Wheels and Gudgeons	7 05
H	49.	Hook for Retaining Fork Pulley, for Single Rail Car	1 00
H	50.	Fork Pulley, complete for Single Rail Car	1 40
H	51.	Track Wheel for Ashland Car	60
H	52.	Malleable Head, Myers Double Harpoon Fork (abandoned)	1 95
H	53.	Lever, Left Side, Myers Double Harpoon Fork (abandoned)	55
H	54.	Lever, Right Side, Myers Double Harpoon Fork (abandoned)	55
H	55.	Malleable Knot Passing Pulley Frame, Old Style	60
H	56.	Washer for Reed Pulley Eye	10
H	57.	Eye for Reed Pulley	30
H	58.	Trip Lever (abandoned—now use H 71) for Grapple Fork	60

Rep. No.		Price
H 59.	Head (abandoned— now use H 70) for Grapple Fork	$ 2 65
H 60.	Spear (abandoned— now use H 72) for Grapple Fork	2 65
H 61.	Stop for Wood or Cable, New Myers Car	65
H 62.	Clamp for Cable Stop, New Myers Car	40
H 63.	Clamp for Cable Car Stop, New Myers Car, Threaded for ¾ inch Pipe Sleeve	40
H 64.	Clamp for Cable, New Myers Car	30
H 65.	End Hook and Bumper for Ashland Car (abandoned)	30
H 66.	Trip Lever, Alfalfa Fork	60
H 67.	Barb, Alfalfa Fork	50
H 70.	Malleable Head, Myers Grapple Fork	2 65
H 71.	Malleable Trip Lever, Myers Grapple Fork	60
H 72.	Malleable Spear, Myers Grapple Fork	2 65
H 73.	Spring Bolt, Myers Grapple Fork	30
H 77.	Trip Rope Pulley, Myers Grapple Fork	40
H 78.	Frame for Floor Pulley, Fig. 486	1 05
H 80.	Ring for Swivel, Haymaker Carrier, Wood or Steel Track	1 05
H 81.	Lock, Haymaker, W. T. Carrier	1 55
H 82.	Frame, Haymaker, W. T. Carrier, with Wheels and Gudgeons	7 00
H 83.	Swivel, Haymaker, W. T. Carrier (abandoned—see H 217, H 218)	4 20
H 84.	Knocker, Wood Track Carrier	65
H 85.	Main Frame or Truck, Sure Grip S. T. Carrier (abandoned)	7 00
H 86.	Swivel, one half, Sure Grip Car S. T. (abandoned)	2 15
H 87.	Swivel, one half, Sure Grip Car, S. T. (abandoned)	2 15
H 88.	Swivel Hitch to attach Draft Rope, Sure Grip Carrier	1 05
H 89.	Knocker or Stop, Sure Grip Carrier (abandoned)	1 05
H 90.	Trip Dog, Sure Grip Carrier S. T. (abandoned)	1 05
H 91.	Lock to engage with H 89, Sure Grip Carrier	2 15
H 92.	Rope Lock, Sure Grip Carrier	60
H 93.	Lock Brace, Sure Grip Carrier	55
H 94.	Rope Wheel Shifter, one half, Sure Grip Car, Old Style (abandoned)	1 55
H 95.	Rope Wheel Shifter, one half, Sure Grip Car, Old Style (abandoned)	1 55
H 96.	Rope Wheel, Sure Grip Carrier	2 15
H 97.	Joint Clamp, Smooth Side, Single Rail .. $0 09 } complete with Bolts	20
H 98.	Joint Clamp, Rib Side, Single Rail ..... $0 09 }	
H 99.	Hanging Hook, Smooth Side, Single Rail	10
H 100.	Hanging Hook, Ribbed Side, Single Rail	10
H 101.	Frame for Myers Single Rail Car (abandoned—now use H 219, H 220)	7 05
H 102.	Lock that registers in Knocker, for Myers Single Rail Car	1 55
H 103.	Knocker, one half, Fluted Side, for Single Rail Carrier	35
H 104.	Knocker, one half, Ribbed Side, for Single Rail Carrier	35
H 105.	Swivel for Haymaker Car, S. T.	4 20
H 106.	Frame for Haymaker Car, S. T.	7 00
H 107.	Swivel Link for Haymaker Car, S. T.	1 05
H 108.	Lock that registers in Knocker for Haymaker Car, S. T.	1 75
H 110.	Rope Sheave and Bushing (now use H 201)	60
H 111.	Steel Gudgeon for Track Wheels on Wood Track Carriers	40
H 112.	Rope Sheave for "H" Fork Pulley	60
H 113.	Cast Ring for Trip Rope for D. H. Fork (abandoned)	40
H 114.	Sheave for Fork Pulley, New Myers Car (now use H 201)	60
H 115.	4½ inch Sheave for Floor Pulley	30
H 116.	Traveler Sheave for New Myers Car, W. T. (abandoned)	60
H 117.	Main Frame on Truck for Sure Grip Car, W. T., Old Style (abandoned)	7 00
H 118.	Track Wheel for New Myers Car, Cable	60
H 120.	Track Wheel (3 inch Diameter, ⅝ inch Face) for S. T	60
H 121.	Track Wheel, New Myers Iron Carrier	60
H 122.	Track Wheel (Flanged), Wood Track	60
H 123.	Traveler Sheave for Reversible Cable Car (abandoned—now use H 252)	1 05
H 124.	Knocker for Reversible Cable Car (abandoned—now use H 253)	65
H 125.	Lock Trip, Reversible Cable Car	1 05
H 126.	Track Wheel for Single Rail	60
H 127.	Steel Gudgeon for Track Wheel on Steel Track Carriers	40
H 128.	Link connecting Trip Dog and Trip Lever for Sure Grip (abandoned)	1 05
H 129.	Crank Axle for Trip Roller, Sure Grip	1 05
H 130.	Knocker for Sure Grip Carriers, Wood or Steel Track	1 00
H 131.	Main Frame, Sure Grip Car, Steel Track, with Wheels and Gudgeons	3 70
H 132.	Trip Roller for Sure Grip Carrier	40
H 133.	Trip Latch for Automatic Grapple Fork	1 05
H 134.	Main Frame for Imperial Steel Track Car	7 05
H 135.	Main Frame for Imperial Wood Track Car	7 05
H 138.	Barb for Lock Lever Fork	55
H 139.	Case for Spring, Automatic Grapple Fork	55
H 140.	Plunger for Trip Latch, Automatic Grapple Fork	30
H 142.	Head for Automatic Grapple Fork (abandoned)	2 15
H 143.	Main Frame, one half, Sure Grip Carrier, Wood Track, with Wheels and Gudgeons	3 70
H 146.	Lower Half of Joint Clamp, three Square Holes, for Double Steel Track $0 10 } complete	20
H 147.	Upper Half of Joint Clamp, three Round Holes for Double Steel Track $0 10 }	
H 153.	Light Intermediate Clamp, one half, for Store Ladder Track	05
H 155.	Myers Center Trip Sling Lock, Main Half (abandoned)	1 05
H 156.	Myers Center Trip Sling Lock, Small Half (abandoned)	60
H 157.	Trip Rope Eye for Myers Center Trip Sling Lock (abandoned)	40
H 158.	Latch for Myers Center Trip Sling Lock (abandoned)	30
H 159.	Support for Cross Bar, Lock Lever Fork	40
H 160.	Adjusting Iron for Sling Rope (abandoned)	40
H 161.	Rope Sheave, 5½ inch, for Steel Frame Pulley	30
H 162.	Rope Eye for Myers Center Trip Sling Lock	40

Rep. No.		Price
H 163.	Catch for Latch No. 133, Automatic Grapple Fork	$0 40
H 164.	Pulley Shifter	30
H 165.	Compression Sling Pulley Frame, Left Side	1 05
H 167.	Compression Sling Pulley Frame, Right Side	1 05
H 168.	Hook for Compression Sling Pulley, to replace Clevis on Fork Pulley	30
H 169.	End Ring for Sling Rope	20
H 170.	T Hanging Hook, one half	20
H 171.	Tongue for Compression Sling Pulley, Right Side	55
H 172.	Tongue for Compression Sling Pulley, Left Side	55
H 173.	Rafter Bracket for T Hanging Hook	20
H 174.	Head for Automatic Grapple Fork	2 15
H 175.	Head Lock Lever Fork (abandoned)	1 05
H 176.	Ring for T Hanging Hook	20
H 177.	Blank Sheave for Compression Sling Pulley	55
H 178.	Cross Bar for Lock Lever Fork (abandoned)	2 15
H 179.	Lever for Setting Lock Lever Fork	55
H 180.	Latch (abandoned)	55
H 181.	Bracket, Malleable, for Store Ladder Hanging Hook	30
H 182.	Knot Passing Pulley Frame, (abandoned)	1 05
H 183.	Pulley Frame, Cast, Reading Pattern, Fig. 692	55
H 184.	Knocker, Adjustable, for Double Steel Track	1 40
H 185.	Bridge Yoke for Knocker H 184	50
H 186.	Center Brace for Jackson Fork	65
H 187.	End Brace, Right Side, Jackson Fork	60
H 188.	End Brace, Left Side, Jackson Fork	60
H 189.	Clamp for Adjustable Knocker, Steel Track	40
H 190.	Swivel, Left, Sure Grip Sling Carrier	2 15
H 191.	Swivel, Right, Sure Grip Sling Carrier	2 15
H 192.	Rope Wheel Shifter, Right Side, Sure Grip Carrier	1 60
H 193.	Rope Wheel Shifter, Left Side, Sure Grip Carrier	1 60
H 194.	Trip Dog, Sure Grip Carrier	1 60
H 195.	Bail, Improved, Sure Grip Carrier	1 60
H 196.	Latch Plate, Jackson Fork (abandoned)	2 15
H 197.	Lock, one half, with Rings, Boss Sling (abandoned)	1 05
H 198.	Lock, one half, without Rings, Boss Sling (abandoned)	60
H 199.	Latch for Boss Sling Lock (abandoned)	50
H 200.	Main Frame for Clover Leaf Carrier, with Wheels and Gudgeons	7 00
H 201.	Rope Sheave with Bushing	60
H 201.	Rope Sheave for Fork Pulley	60
H 202.	Rope Hitch for Sling Ropes, (replaces H 160)	40
H 208.	Snatch Block, ½ inch Swivel	1 05
H 209.	Snatch Block, Open Half	55
H 214.	Knot Passing Pulley Frame, Perforated, Figs. 796-820	1 05
H 216.	Main Frame, one half, for Myers Combination Steel Track Car, with Wheels and Gudgeons	3 50
H 217.	Swivel, one half, for Clover Leaf, Haymaker and Imperial Carriers	2 15
H 218.	Swivel, one half, for Clover Leaf, Haymaker and Imperial Carriers	2 15
H 219.	Main Frame, Right Side, Myers Single Rail Carrier, with Wheels and Gudgeons	3 50
H 220.	Main Frame, Left Side, Myers Single Rail Carrier, with Wheels and Gudgeons	3 50
H 221.	Knot Passing Pulley Frame, Malleable, ½ inch, with Round Hole for Pin, Figs. 676-819	55
H 222.	Knot Passing Pulley Frame, Malleable, ½ inch, with Oblong Hole for Pin, Figs. 676-819	55
H 223.	Eye for Knot Passing Pulley for H 221 and H 235	40
H 224.	Head, one half, Grappling Harpoon Fork	2 15
H 225.	Head, one half, Grappling Harpoon Fork	2 15
H 226.	Sleeve for Cross Bar, Grappling Harpoon Fork	1 05
H 227.	Cross Bar for Grappling Harpoon Fork	1 05
H 228.	Sheave, 6 inch Diameter, for all Knot Passing Pulleys	55
H 229.	Latch Plate, California and Jackson Forks	2 15
H 230.	Latch, Improved, California and Jackson Forks	60
H 231.	Head, Lock Lever Fork	1 05
H 232.	Latch, Lock Lever Fork	1 05
H 233.	Cross Bar, Lock Lever Fork	2 15
H 234.	Guide Ring for Trip Rope, Lock Lever Fork	55
H 235.	Knot Passing Pulley Frame, Cast Half, with Round Hole, Figs. 796-820	55
H 236.	Knot Passing Pulley Frame, Cast Half, with Oblong Hole, Figs. 796-820	55
H 238.	Sheave for Nickel Plate Carrier, Improved	1 25
H 239.	Sling Lock, one half, Myers (abandoned)	60
H 240.	Sling Lock, one half, Myers (abandoned)	60
H 241.	Trip Latch, Myers Sling Lock (abandoned)	30
H 242.	Clamp, one half, Intermediate, Heavy	10
H 243.	Catch or Eye for Myers Sling Lock	85
H 244.	Frame, one half, Combination Wood Track Carrier, with Wheels and Gudgeons	3 50
H 245.	Frame, one half, with Rivets, Myers Boss Sling Lock	60
H 246.	Frame, one half, with Holes, Myers Boss Sling Lock	60
H 247.	Plunger, Myers Boss Sling Lock	30
H 248.	Frame, one half, Hay Unloader, Steel Track, with Wheels and Gudgeons	3 50
H 249.	Frame, one half, Hay Unloader, Steel Track, with Wheels and Gudgeons	3 50
H 250.	Lock to hold Fork Pulley Unloader Carriers, Steel or Wood Track (abandoned)	1 25
H 251.	Swivel, one half, Unloader Carriers (abandoned)	2 15
H 252.	Traveler Sheave, for Reversible Cable Car, Improved	1 05
H 253.	Cable Knocker for Reversible Cable Car, Improved	65
H 254.	Fork Pulley, complete, Hay Unloader	1 40
H 255.	Frame, one half, Hay Unloader, Wood Track, with Wheels and Gudgeons	3 50
H 256.	Frame, one half, Hay Unloader, Wood Track, with Wheels and Gudgeons	3 50
H 257.	Swivel Eye for Fork Pulley, Myers Unloader	40
H 258.	Rope Sheave for Myers Unloader	60
H 259.	Fork Pulley Sheave for Myers Unloader	60

Rep. No.		Price
H 260.	Frame, one half, for Myers Unloader, for Single Steel Track, with Wheels and Gudgeons	$ 3 50
H 261.	Swivel, one half, for Myers Unloader, for Single Steel Track (abandoned)	2 15
H 262.	Lock Trip for Myers Unloader, Single Steel Track (abandoned)	1 60
H 263.	Connecting Link between H 262 and H 264	85
H 264.	Retaining Hook for Myers Unloader, Single Steel Track	65
H 265.	Lock Trip for Clover Leaf Unloader, Double Steel Track (abandoned)	1 60
H 266.	Trolley Frame, one half, Clover Leaf Unloader, Double Steel Track, with Wheels and Gudgeons	3 50
H 267.	Trolley Frame, one half, Clover Leaf Unloader, Wood Track, with Wheels and Gudgeons	3 50
H 268.	Lock Trip for Clover Leaf, Imperial and Haymaker Unloaders, Wood Track (abandoned)	1 60
H 269.	Frame, one half, Imperial Unloader, Wood Track, with Wheels and Gudgeons	3 50
H 270.	Frame, one half, Haymaker Unloader Wood Track, with Wheels and Gudgeons	3 50
H 271.	Frame, one half, Imperial Unloader, Single Steel Track, with Wheels and Gudgeons	3 50
H 272.	Frame, one half, Haymaker Unloader, Single Steel Track, with Wheels and Gudgeons	3 50
H 274.	Knocker for Unloader, Wood or Steel Track	65
H 275.	Swivel Frame, one half, Clover Leaf, Wood or Steel (abandoned)	2 15
H 276.	Pulley Head for Self-Locking Pulley, Unloader Car	65
H 277.	J. S. C. Improved, for Combination Steel Track Carriers	1 05
H 278.	J. C. Improved, for Combination Wood Track Carrier	1 05
H 279.	Trolley Frame, one half, for Cable or Rod Track, interchangeable, with Wheels and Gudgeons	3 50
H 280.	Knocker, for Cable or Rod Track Carrier	1 25
H 281.	Lock Trip Ring, for Clover Leaf Steel Track Carrier (abandoned)	1 55
H 282.	Lock Trip Ring, for Clover Leaf, Imperial and Haymaker Unloader, Wood Track Carriers (abandoned)	1 60
H 283.	End Stop for Double Steel Track, new	10
H 284.	Universal Pulley Frame, Right Side	1 05
H 285.	Universal Pulley Frame, Left Side	1 05
H 286.	Center for Universal Sling Pulley, with Latch	1 60
H 287.	Trigger to operate Registering Latch	55
H 288.	Retaining Latch	85
H 289.	Roller for Universal Sling Pulley	85
H 290.	Roller, End Wheels and Rope Guide for Universal Sling Pulley	55
H 291.	Swivel Frame for O. K. Unloader Carrier, new	2 15
H 292.	Rope Sheave for Universal Sling Pulley	60
H 293.	Trolley Frame, one half, (blank) with Wheels and Gudgeons for Clover Leaf Unloader Steel Track	3 50
H 294.	Trolley Frame, one half, (blank) with Wheels and Gudgeons for Clover Leaf Unloader Wood Track	3 50
H 295.	End Stop for Single Rail Track	05
H 296.	Sheave, Iron, for Cable Pulley, 7 inch Diameter	65
H 297.	Sheave, Iron, for Rope Pulley, 7 inch Diameter	65
H 298.	Cast Frame, one half, O. K. Knot Passing Pulley, Heavy, Figs. 1120-1121	55
H 299.	Cast Frame, one half, O. K. Knot Passing Pulley, Heavy, Figs. 1120-1121	55
H 300.	Rope Shield and Rope Lock, S. G. Unloader Sling Carrier	2 15
H 301.	Lock to engage with H 130	2 65
H 302.	Swivel Side, with Rope Guard and Pulley, for S. G. Unloader	3 15
H 303.	Swivel Side, used with H 302 (abandoned)	2 15
H 304.	Triple Rope Pulley Frame, one half	60
H 305.	Trip Bail for Sure Grip Unloader	1 60
H 306.	Rope Lock to bolt on H 302	65
H 307.	Hay Ladder Clamp (Myers)	20
H 308.	Malleable Pulley Block, one half, Right Side, S. G. Unloader (Fig. 1141 Pulleys)	90
H 309.	Malleable Pulley Block, one half, Left Side, S. G. Unloader (Fig. 1141 Pulleys)	90
H 310.	Cast Frame, one half, 6 inch O. K. Pulley, Round Hole (abandoned)	40
H 311.	Cast Frame, one half, 6 inch O. K. Pulley, Oblong Hole (abandoned)	40
H 312.	Trolley Frame, long, one half, with Wheels and Gudgeons, for Sure Grip Unloader, D. S. T	3 70
H 313.	Plate for Standard Hay Rack Clamp (Right)	20
H 314.	Swivel Eye for 7 inch Steel Frame Pulley	30
H 315.	End Guide Roller, for Sure Grip Sling Unloader	40
H 316.	Swivel, one half, for Unloader Carrier, Single Steel Track (improved)	2 15
H 317.	Lock, for Unloader Carrier, Single Steel Track (improved)	1 60
H 318.	Base for Lock for Unloader Carrier, Single Steel Track	85
H 319.	Link for Clover Leaf Unloader Carrier, Double Steel Track (improved)	1 55
H 320.	Link for Clover Leaf Unloader Carrier, Single Steel Track (improved)	1 60
H 321.	J for Unloader Carrier, Double Steel Track (improved)	85
H 322.	Cast Frame with Malleable Swivel Eye for O. K. Plain Pulley, Fig. 1133	65
H 332.	Plate for Standard Hay Rack Clamp (Left)	20
H 333.	Plunger for Spring for Sure Grip Unloader	50
H 334.	Trip with Spring for Sure Grip Sling Unloader (abandoned)	1 60
H 335.	Side Swivel, (Right) for Right Angle Fork and Sling Elevator (improved)	2 15
H 336.	Side Swivel, (Left) for Right Angle Fork and Sling Elevator (improved)	2 80
H 337.	Lock to engage with Repair H 130 for Right Angle Fork and Sling Elevator	2 60
H 338.	Rope Shield and Lock for Right Angle Fork and Sling Elevator	2 15
H 339.	Latch for Swivel for Right Angle Fork and Sling Elevator	55
H 340.	Universal Pulley Frame, Right (improved)	1 05
H 341.	Universal Pulley Frame, Left (improved)	1 05
H 342.	Center, (improved) for Universal Sling Pulley	1 60
H 343.	Trolley Side, with Wheels and Gudgeons, for Right Angle Fork and Sling Elevator	3 70
H 344.	Meat Market Trolley	3 50
H 345.	¾ inch Cable Sheave for H 254 and H 309	60
H 346.	Trip Bail for Right Angle Fork and Sling Elevator	1 60
H 347.	Trolley Frame, one half, with Wheels and Gudgeons, on Faultless Double Steel Track	3 50
H 348.	Pulley Frame, Cast, with Cast Swivel Eye, for Pulley, Figs. 1267-1268	55
H 349.	Latch on Repairs Nos. H 308 and H 309, Sling Unloader Pulley	20

Rep. No.		Price
H 350.	Plate (Right) for Wenzlemann Hay Rack Clamp	$0 20
H 351.	Plate (Left) for Wenzlemann Hay Rack Clamp	20
H 352.	Swivel Frame (Right or Left) for Cable Unloader, Cable Draft	2 45
H 353.	Fork Pulley Side (Right or Left) for Unloader, Double Steel Track, Cable Draft	65
H 354.	Pulley Sheave, 7 inch Diameter, for Cable Draft Fork Pulley	65
H 355.	Side (one half) for Cable Draft Rope Pulley, Fig. 1276	65
H 356.	Side (one half) for Cable Draft Rope Pulley, Fig. 1276	65
H 357.	Rope Eye for Head on All Steel Grappling Harpoon Fork	55
H 359.	Fork Lever for All Steel Grappling Harpoon and Myers D. H. Forks	55
H 360.	Pulley Frame (one half), Cast, for 7 inch Wood Sheave Pulley, Fig. 1316	65
H 361.	Rope Eye for Head on All Steel Myers D. H. Fork	55
H 362.	Ring for Fork Lever to go with Repair No. H 359	10
H 363.	Latch which registers in Repair No. H 364	85
H 364.	Bracket Frame and Hook for Double Lock Adjustable Sling	1 05
H 365.	Bracket Hook for Double Lock Adjustable Sling	65
H 366.	Bracket Eye for Double Lock Adjustable Sling	65
H 367.	Lock Trip (Right Side) for Perfect Automatic Double Grapple Fork (abandoned)	40
H 368.	Lock Trip (Left Side) for Perfect Automatic Double Grapple Fork (abandoned)	40
H 369.	Retaining Hook for Perfect Automatic Double Grapple Fork (abandoned)	55
H 370.	Latch (R), one half, for Perfect Automatic Double Grapple Fork (abandoned)	35
H 371.	Latch (L), one half, for Perfect Automatic Double Grapple Fork (abandoned)	35
H 372.	Clevis and Rope Guide for Perfect Automatic Double Grapple Fork	65
H 373.	Y End Ring for Cable Sling	50
H 374.	Trip Rope Guide for Double Harpoon Fork, Fig. 1314	30
H 375.	Swivel Take-up for Perfect Automatic Grapple Fork	65
H 376.	Rope Lock (Cast) for Right Angle Fork and Sling Elevator	65
H 377.	Side or Frame for Faultless or Clover Leaf Unloaders for Cable Draft Rope	2 45
H 378.	Side (Right or Left) for Fork Pulley on Unloaders for Cable Draft Rope	65
H 379.	Trolley Frame, with Coil Spring Pocket and with Wheels and Gudgeons for Cross Draft Sling Unloader	3 70
H 380.	Trolley Frame, Plain, with Wheels and Gudgeons for Cross Draft Sling Unloader	3 70
H 381.	Rope Shield (Left Side) for Cross Draft Sling Unloader	55
H 382.	Rope Shield with Boss (Right Side) for Cross Draft Sling Unloader	55
H 383.	Oscillator for Cross Draft Sling Unloader	55
H 384.	Lock Lever, Plain, to go with H 385 on Cross Draft Sling Unloader	55
H 385.	Lock Lever to engage with Rope Wheel on Cross Draft Sling Unloader	60
H 386.	Side Lever for Trip Rope on Cross Draft Sling Unloader	60
H 387.	Short Lever for Cross Draft Sling Unloader	55
H 388.	Rope Lock for Cross Draft Sling Unloader	60
H 389.	Main Frame (Left Side) for Cross Draft Sling Unloader	1 05
H 390.	Main Frame (Right Side) for Cross Draft Sling Unloader	1 05
H 391.	Draft Rope Sheave for Cross Draft Sling Unloader	60
H 392.	Right Side and Rope Shield for Cross Draft Sling Unloader	1 05
H 393.	Left Side and Rope Shield for Cross Draft Sling Unloader	1 05
H 394.	Trip Rope Keeper Extension and Guide for Cross Draft Sling Unloader	35
H 395.	Rope Lock Sheave for Cross Draft Sling Unloader	1 05
H 396.	Plunger for Spring on Cross Draft Sling Unloader	20
H 397.	Oscillating Plunger Link for Cross Draft Sling Unloader	20
H 398.	Eye, Malleable, for California and Jackson Forks	65
H 399.	Cable Shield and Lock for Sure Grip Sling Unloader, Cable Draft Rope	1 60
H 400.	Sheave, Cast, for Cable for Sure Grip Sling Unloader, Cable Draft Rope	60
H 401.	End Guide Roller for Sure Grip Sling Unloader, Cable Draft Rope	55
H 402.	Frame (Trolley), Right, for O. K. Unloader, Double Steel Track	3 50
H 403.	Lock for Cable for Sure Grip Sling Unloader, Cable Draft Rope	65
H 404.	Sheave, Cast, 7 inch (Roller Bearing) for Fig. 1550 Pulley	65
H 405.	Frame (Trolley), Left, for O. K. Unloader, Double Steel Track	3 50
H 406.	Frame (Trolley), Left, for O. K. Unloader, Wood Track	3 50
H 407.	Frame (Trolley), Right, for O. K. Unloader, Wood Track	3 50
H 408.	Frame for Fork Pulley, 7 inch Sheave, Roller Bearing for O. K. Unloaders	65
H 409.	Swivel Eye for Roller Bearing Fork Pulley, 7 inch Sheave	40
H 410.	Swivel Frame for O. K. Unloaders, Roller Bearing	2 80
H 411.	Frame for Fork Pulley, 7 inch Sheave, Roller Bearing for O. K. Unloaders	65
H 412.	Rope Sheave, Cast, 7 inch (Roller Bearing) for O. K. Unloaders	65
H 413.	Knocker (Improved) for Clover Leaf and Faultless Unloaders	65
H 414.	Swivel Side (Improved) for Sure Grip Unloader Cable Hoist	2 80
H 415.	Cable Lock to bolt on H 414 on Sure Grip Unloader Cable Hoist	65
H 416.	Rope Ring for Sling, Figs. 1309, 1590	40
H 417.	Swivel Frame, Right and Left, for 7 inch Roller Bearing Sheave on Faultless, Imperial, Haymaker and Clover Leaf Unloaders	2 80
H 419.	Plate (Right) for Myers Take-Down Hay Rack Clamp	35
H 420.	Plate (Left) for Myers Take-Down Hay Rack Clamp	35
H 421.	Wedge for Myers Take-Down Hay Rack Clamp H 419 and H 420	10
H 422.	Side Frame (Improved) for Trolley of Clover Leaf Unloader, with Wheels and Gudgeons, replaces H 266 for Double Steel Track	3 50
H 423.	Side Frame (Improved) for Trolley of Faultless Unloader, with Wheels and Gudgeons, replaces H 347 for Double Steel Track	3 50
H 424.	Side Frame for Trolley (Right) (Improved) for O. K. Unloader (Steel Track) with Wheels and Gudgeons, High Knocker	3 50
H 425.	Side Frame for Trolley (Left) (Improved) for O. K. Unloader (Steel Track) with Wheels and Gudgeons	3 50
H 426.	Swivel Frame for Trolley (Right or Left) for 7 inch Steel Bearing Sheave, Clover Leaf, Faultless, Haymaker and Imperial Unloaders	2 80
H 427.	Sheave, 7 inch (with Groove for Cable or Rope) Plain or Roller Bearing	65
H 428.	Knocker, extra high for O. K. Unloader	65
H 429.	Clevis and Rope Guide for Giant Perfect Auto. Grapple Fork	85
H 430.	Swivel Frame (Right or Left) for 7 inch Steel Bearing Sheave on O. K. Unloader	2 80

Rep. No.		Price.
H 431.	End Adjusting Ring for Slings, Figs. 1309, 1589, 1590, 1695, 1696, 1697, 1728 (Replaces H 416)	$0 40
H 432.	End Eye for Rope Slings, Figs. 1695, 1696, 1697	10
H 433.	Shield (Right or Left) for Cable Sheave on Sure Grip Sling Unloader	35
H 434.	Swivel Side, used with Repair H 414	2 15
H 435.	Frame, Right or Left (Malleable), for Pulley, Fig. 1701	55
H 436.	Sheave (Roller Bearing), 5 inch Diameter for Pulley, Fig. 1701	55
H 437.	Fork Clevis for Sling and Self-Locking Pulley	40
H 438.	Latch (Right), one half, for Perfect Automatic Double Grapple Fork (Replaces H 370)	35
H 439.	Retaining Hook for Perfect Automatic Double Grapple Fork (Replaces H 369)	55
H 440.	Latch (Left), one half, for Perfect Automatic Double Grapple Fork (Replaces H 371)	35
H 441.	Lock Trip (Right Side) for Perfect Automatic Double Grapple Fork (Replaces H 367)	40
H 442.	Lock Trip (Left Side) for Perfect Automatic Double Grapple Fork (Replaces H 368)	40
H 443.	Retaining Hook for (Improved) Gravity Lock Unloader, List,	65
H 444.	Base for Lock on Gravity Lock Unloader, List,	75
H 445.	Side (R. or L.) for Improved Gravity Lock Unloader, 7-inch Sheave, List,	80
H 446.	Main Frame (Right Side) Adjustable Cross Draft Sling Unloader, List,	1 05
H 447.	Main Frame (Left Side) Adjustable Sling Car, List,	1 05
H 448	Trolley Frame (Right) Adjustable Cross Draft Sling Unloader with Wheels and Gudgeons. List,	3 70
H 449.	Trolley Frame (Left) Adjustable for Cross Draft Sling Unloader with Wheels and Gudgeons. List,	3 70
H 450.	Trolley Frame (R. or L.) for Fearless Unloader with Wheels and Gudgeons, List,	3 35
H 451.	Oscillator (Improved) Adjustable Cross Draft Sling Unloader, List,	75
H 452.	Side (R. or L.) for (Improved) Gravity Lock Unoader Roller Bearings, List,	2 80
H 453.	Pulley Block Half Right Side Sure Grip Unloader for Fig. 1799 Pulley, List,	1 00
H 454.	Pulley Block Half Left Side Sure Grip Unloader for Fig. 1799 Pulley, List,	1 00
H 455.	Spring Retaining Trigger for Fig. 1799 Pulley, List,	10
H 456.	Frame Sure Lock Carrier, one half, for Single Rail Unloader, List,	2 15
H 457.	Frame Right Side, Giant Universal Sling Pulley, List,	1 00
H 458.	Frame Left Side, Giant Universal Sling Pulley, List,	1 00
H 459.	Center Latch for Giant Universal Sling Pulley with Latch Repair H 286, List,	1 55
H 460.	Roller and Rope Guide for Universal Giant Sling Pulley, List,	55
H 461.	Rope Sheave on Universal Giant Sling Pulley, List,	60
H 462.	Track Wheel for Adjustable Cross Draft Sling Unloader, List,	60
H 463.	Pulley Frame, one half, for Fig. 1268 (Replaces H 348), List,	30
H 464.	Pulley Frame, one half, for Fig. 1268 (Replaces H 348), List,	30
H 465.	Pulley Frame, one half, for Fig. 692 Pulley (Replaces H 183), List,	30
H 466.	Pulley Frame, one half, for Fig. 692 Pulley (Replaces H 183), List,	30

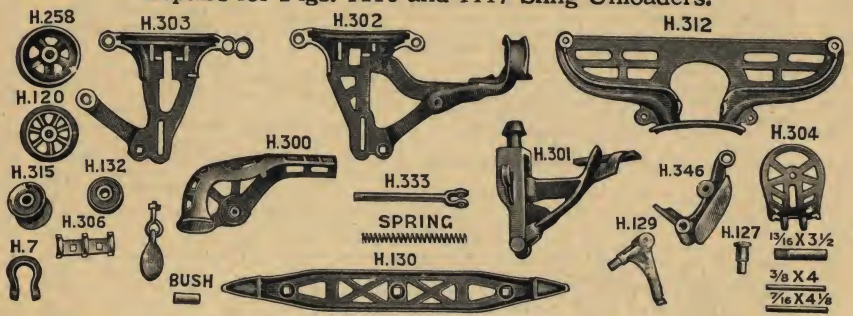
HAY TOOL REPAIRS NOT NUMBERED.

Bolts with Bushings.	10
Bolt, Steel, ⅜ x 4¼ inch	10
Bolt (Stove, Round Head)	10
Barb Steel, for Nellis Fork	40
Cock Eye, 2 inch	30
Fork Pulley.	1 40
Nellis Fork, Main Body	3 15
Rivet (Steel), Nellis Fork	10
Steel Frame for Cable Pulley, for 7 inch Sheave	1 55
Steel Frame for Rope Pulley, for 7 inch Sheave	1 55
Sheave (Wood) for Fork Pulley	20

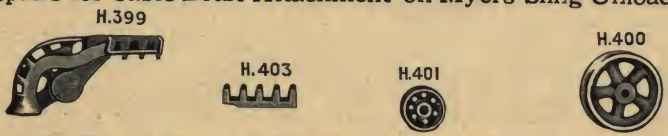
ILLUSTRATIONS OF REPAIRS AND PARTS USED IN MYERS HAY TOOLS.

The letter and number appearing with the illustration is the number of the Casting. See Catalog Repair List for Price.

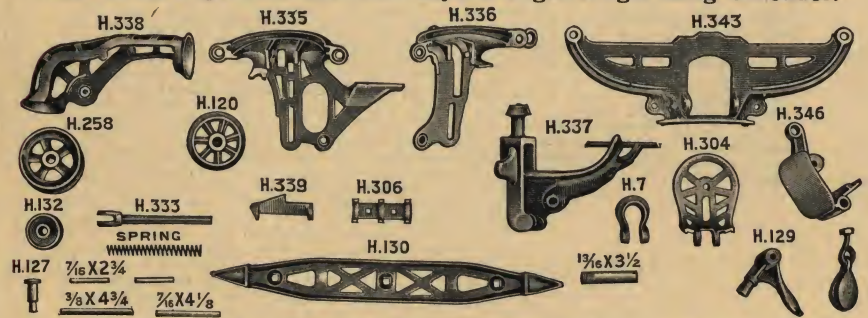
Repairs for Figs. 1116 and 1117 Sling Unloaders.



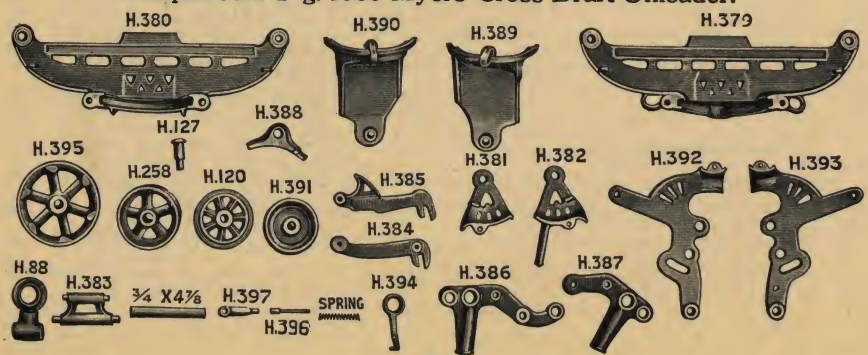
Repairs for Cable Draft Attachment on Myers Sling Unloaders.



Repairs for Figs. 1673 and 1679 Myers Right Angle Sling Unloader.



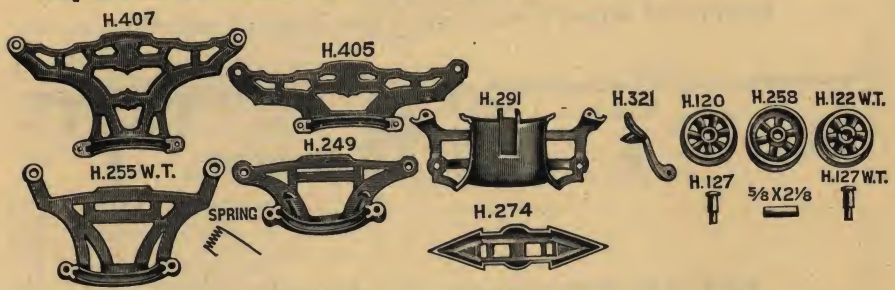
Repairs for Fig. 1386 Myers Cross Draft Unloader.



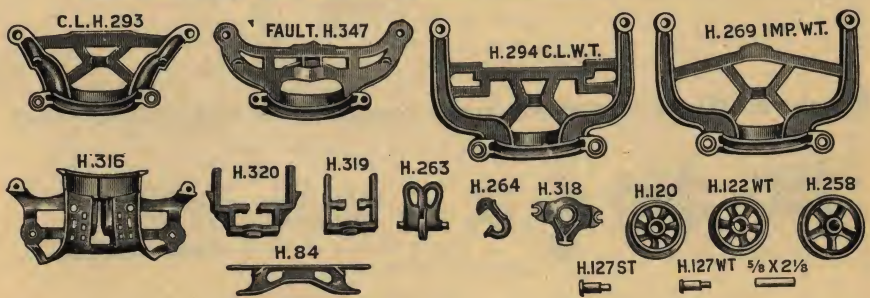
F. E. MYERS AND BRO.

ASHLAND, OHIO, U.S.A.

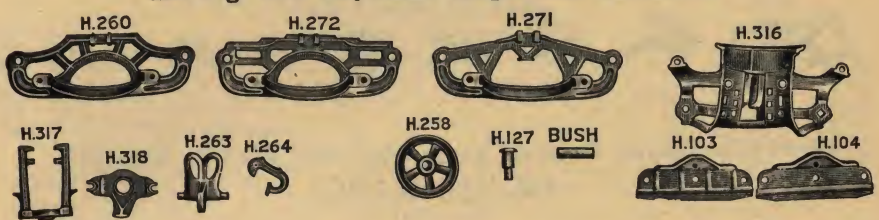
Repairs for O. K. and Myers Unloaders for Wood and Steel Track.



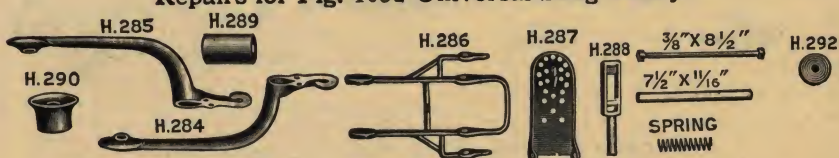
Repairs for Figs. 1031 and 1032 Clover Leaf Unloaders for Wood and Steel Track; Fig. 1213 Faultless Unloader Steel Track and Figs. 1039 and 1041 Imperial and Haymaker Unloaders Wood Track.



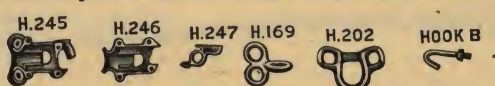
Repairs for Fig. 1033 Myers Single Rail Unloader and Fig. 1038 Imperial and Fig. 1040 Haymaker Single Rail Unloaders.



Repairs for Fig. 1052 Universal Sling Pulley.



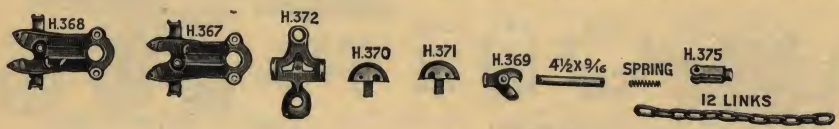
Repairs for Myers Center Trip Sling Lock and Slings.



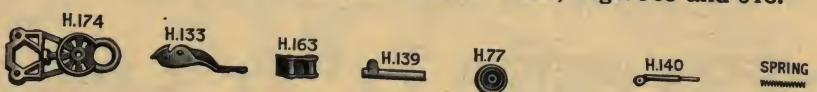
Repairs for Myers Lock Lever Fork, Figs. 670 and 671.

Repairs for Myers Grapple Fork, Figs. 563 and 564.

Repairs for Myers Perfect Automatic Grapple Fork, Figs. 1351 and 1438.



Repairs for Myers Automatic Grapple Fork, Figs. 965 and 618.



Repairs for Double Harpoon Forks, Figs. 268, 450, 451, 562, 1312, 1313, 1314 and 1315.

Repairs for Nellis Fork, Figs. 773 and 774.

BICYCLE STAND REPAIRS.

Figs. 703-784.

		Price.	Complete.
751.	Hinge, one half, for Bike Stand, Front Half	40	
752.	Hinge, one half, for Bike Stand, Rear Half	40	
754.	Hinge, one half, for Bike Stand	40	
755.	Hinge, one half, for Bike Stand, with Shoulder	40	
851.	Stand for Bicycle Truing Device	65	
852.	Gauge for Bicycle Truing Device	65	
897.	Loop for Perfect Bike Stand	30	

DOOR HANGERS.

Figs. 857, 989, 998, 1154, 1222, 1239, 1243, 1302, 1420, 1774.

1183.	Frame for Stayon Hanger	65
1210.	Wheel for O. K. and Sure Grip Hangers	40
1287.	Wheel for Stay Roller	30
1452.	Frame for Sure Grip Hanger	65
1464.	Frame for O. K. Hanger	65
1688.	Frame for Tandem Hanger	65
1689.	Wheel for Tandem Hanger	35
1722.	Thumb Nut, Malleable (Adjustable), for Tandem Hanger	40
1723.	Elevating Bolt (Malleable), with Hinge Connection for Clevis for Tandem Hanger	50
1724.	Clevis, Malleable, used with Repair No. 1723	35
1792.	Bolt, Malleable, for O. K. Adjustable Hanger	50
2215.	Intermediate Bracket, Malleable, for Tubular Track	20
2216.	Oscillating Link for No. 10 New Way Hanger	35
2217.	End Bracket, Malleable (Right or Left), for Tubular Track	20
2251.	Adjusting Bolt for No. 10 New Way Hangers	50
2356.	Oscillating Link for No. 15 Hanger	35
2868.	Hinge with Guard for No. 20 Faultless Hanger	35
2869.	Adjusting Bolt for No. 20 Faultless Hanger	50
	Axle, Steel, for Wheel	10
	Bolt, Rivet Head (S41)	10
	Bracket, Steel, for Flat Track ¼ x 1¼ inch	30
	Clevis (Wrought) to attach Adjusting Bolt, for Tubular Hangers	10
	End Bracket for Giant and Hercules Track	20
	End Bracket for Faultless Track	10
	Frame for Sure Grip Tandem (Adjustable)	1 40
	Hasp, Wrought Iron	40
	Roller, Steel, Machine turned, for Giant and New Way Hangers	35
	Wheel, Steel, Machine turned, for Faultless Hanger	35

GATE HANGER REPAIRS.

Fig. 635.

530.	Pivot for Gate Hanger	30
531.	Traveler Wheel for Gate Hanger	40

GIANT CONVEYOR REPAIRS.

Fig. 896. (Abandoned).

Rep. No.		
1213.	Main Frame, Right or Left Side	$16 85
1216.	Knocker	4 20
1217.	Retaining Hook	4 20
1225.	Rope Sheave	4 20
1239.	Sheave for Fork Pulley	4 20
1256.	Traveler Wheel, Steel Track	4 20
	Frame for Fork Pulley, Wrought Iron	4 20
	Lock, Wrought Iron	4 20

STORE LADDER REPAIRS.

Figs. 1256-1260.

527.	Trolley Frame, one half (abandoned)	2 80,	$5 60
528.	Trolley Wheel, Flange Side	30	
529.	Trolley Wheel, Hub Side	55	
556.	End Stop, Steel Track, for Trolley	20	
557.	Floor Wheel, one half, with Hub, Open Pattern	55	
558.	Floor Wheel, one half, without Hub, Open Pattern	35	
2427.	Trolley Frame, one half	2 80,	5 60
H 76.	Dowel Tee	10	
H 146.	Joint Clamp, Lower Half, with Three Square Holes	50	
H 147.	Joint Clamp, Upper Half, with Three Round Holes		
H 153.	Clamp, one half, Intermediate, for Track, Light	10	
H 181.	Bracket for Hanging Hook	20	
	Store Ladder, only	14 05	
	Trolleys, complete	14 05	
	Rubber Tire for Trolley Wheel	65	
	Rubber Tire for Floor Wheel	65	
	Axle for Upper and Lower Trolleys	65	
	Side Bracket, Rubber Tired Roller	1 40	
	Trolley Comp., Lower	2 80	
	Trolley Comp., Upper	11 25	
	Upper Wheel Comp	1 40	
	Floor Wheel Comp	1 40	

Telegraph Cipher.

Cable Address—Femyers.

Zebra. Pump with Windmill Head.
Zero. Pump with Three-Way Cock.
Zion. Pump with Three-Way Cock and Windmill Head.

Letters and Telegrams.

Propose. Answer by mail.
Prosecute. Referring to our letter of.....
Prosecuted. Referring to your letter of.....
Provoke. We write you fully today.
Prude. We have no letter from you.
Prudent. Will write you fully in a day or two.
Prune. Write, giving full particulars.
Pulley. Answer by telegraph.
Pungent. Referring to our telegram of.....
Quipu Referring to your telegram of.....
Purloin. Telegraph by night message.
Quire. Telegraph immediately.
Purpose. Telegraph reply as soon as possible.
Purser. We have no telegram from you.
Quiry. Why do you not telegraph

Prices and Orders.

QUESTIONS FROM DEALERS.

Label Wire prices on.....Terms cash.
Labor. Wire prices on.....Regular terms.
Ladder. Wire prices on.....and name best terms.
Lagoon. Are you in a position to sell us (or me) your goods? If so, quote prices and terms on..... by wire.
Lair. Are you in a position to sell us (or me) your goods? If so, quote prices and terms on..... by mail.
Laird. Send contract and quotations by mail on full line.
Lake. Our orders have been placed for all goods excepting.....If you wish to sell those quote best prices and terms.
Mineral. Send traveler at once. Want to contract for.....
Modern. When will your traveler be here?
Moment. Ship our goods at once, if you can. If not, how soon can you?
Monitor. Are needing goods badly; why don't you ship? Give us particulars by mail.
Monkey. Are needing goods badly. If you can't ship now, how soon can you ship?
Mortal. Ship immediately by quickest freight route.
Mount. Ship by first express.....
Mule. Ship to us from nearest distributing point or transfer.....
Musket. What goods can you ship at once, and when can the remainder be shipped?
Mustard. Hold our goods for additional specifications, which will be forwarded at once.
Mutton Add to our order.....
Nature. Ship goods via.....
Nectar. Who is your transfer agent at.....?
Neglect. Who is your transfer agent at.....and have you any.....in stock there?
Nerve. Instruct your transfer agent at.....to fill out orders for.....
Netting. Who is your nearest transfer agent, and can we get.....there?
Nigger. Have you any.....in stock at.....? If not, when will you?
Noble. Have you any.....in stock at.....? If not, what is the nearest distributing point at which you have them?
Nonsense. Where is the nearest place we can get your.....quick?
Noon. Wire your transfer agent at.....to ship us.....
Nominal. You may enter our order, if you can ship at once, for.....
Nose. You may enter our order for....., if you can ship at least.....by the..... and balance by the.....
Nurse. Must have.....shipped by the.....and the balance by the.....
Oblige. Ship what you can at once, and let balance follow as fast as you can.

Prices and Orders.

ANSWERS TO DEALERS.

Lamont. Name quantity you will order, if price is satisfactory.
Lesson. We name you the following prices on.....
Lance We cannot quote you. Territory covered by others.
Land. We have quoted you by mail.
Lane. We will accept your orders if we can agree on prices and terms.
Legal. Will accept order at price or prices named, but terms must be.....
Lapel. Cannot accept your order at price you name; best we can do is.....
Larch. Our traveler will see you on.....and quote.
Launch. Please do not close until our traveler sees you; will be there on.....

SHIPMENTS.

ANSWERS TO DEALERS.

Obscure. Can ship.....by the.....and balance of the order by the.....
Officer. Shall we ship what we have ready and let balance follow, which can go forward by the.....
.....
Olive. Your order is not clear; better send it by mail and explain fully.
Onset. Do you want Plain or Knot Passing Pulleys?
Open. Do you want Long or Short Hanging Hooks?
Orange. Give us routing instructions for car ordered; instructions received are conflicting.
Ordain. Our R. R. will not accept car and route by your instructions. Can we ship it via.....?
Orator. Have entered your order and will ship on.....
Organ. Can ship all but the.....at once, which will make car load. Shall we do so and let balance follow by local freight, or will you send specifications to fill out another car load?
Orient. We shipped all your order excepting the.....on the..... Those will go forward on the.....
Ornament. Can ship immediately on receipt of order.
Outcast. Can ship within.....days after receipt of order.
Over Have no.....in stock at.....but will have by the.....
Shall we order them shipped to you as soon as they arrive there?
Paddle. Have no.....in stock at..... Nearest stock to you is at.....
Padlock. Have no.....in stock at.....but we have them at.....
Have advised our transfer agent there to ship on receipt of orders from you.
Pagan. Will ship remainder of your order by.....
Pagoda. Have.....in stock at.....Send your order direct to transfer agent there.
Painter. Have.....in stock at.....Will order shipped at once.
Pug. Your order was shipped complete on the.....
Pugger. Part of your order was shipped on the.....balance will follow in.....days.

EXPORT.

Cable Address: FEMyers.

Myers Pumps and Hay Tools are now bought and sold by the leading dealers in the world, a condition brought about in a brief period by our earnest and successful endeavor to give full value for every dollar.

With a view to still further increasing our trade in this direction, and making the Myers name and goods as well known in foreign lands as in the United States, we have established an EXPORT OFFICE at New York City, under our own control, and managed by a gentleman of great experience and wide knowledge of the requirements in the different countries. All correspondence regarding our goods for export should be addressed to "F. E. Myers & Bro., New York City, U. S. A.," where we have a complete corps of competent translators, and correspondence in any language will be promptly attended to.

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WEIGHTS, NUMBER OF ARTICLES AND CUBIC FEET IN EACH CASE.

Set Length Well Pumps.

Number Packed in Case	DESCRIPTION NUMBER OF PUMPS	Figure Number of Pump	Cubic Feet per Case	Gross Weight per Case	Net Weight per Case
3	No. R1 Pumps	1747	21	325	225
6	Nos. R4 to R7 Pumps	1766	28	662	460
5	Nos. 20 to 25 Pumps	398	37	770	570
6	No. 56 Pumps	331	28	615	505
6	Nos. 70 to 77 Pumps	333	26	765	564
5	No. 104 Pumps	825	26	625	445
6	Nos. 124 to 139 Pumps	792 & 827	17	540	370
3	No. R104	1170	18	480	310
6	Nos. R1052, R1072 Pumps	1830-1898	19	518	387
6	No. R188 Pumps	1109	25	750	510
3	No. 452	1369	13	403	309
5	Nos. R200 to R205 Pumps	1935	24	600	440

Stands.

Number Packed in Case.	DESCRIPTION NUMBER OF PUMPS	Figure Number of Pump	Cubic Feet per Case	Gross Weight per Case	Net Weight per Case
6	No. 95 Stands (two packages)	1552	29	830	600
6	No. 110½ Stands	683	14	520	390
6	No. 111 Stands	683	14	505	378
6	No. 116 Stands	1752	15	588	462
6	No. 117 Stands	1751	16	650	480
8	No. 117 Stands	1751	19	794	640
6	No. R94½ Stands	1478	16	565	432
8	No. R110½ Stands	1829	21	750	608
6	No. R117 Stands	1749	17	600	495
8	No. R117 Stands	1749	19	815	660

Well, Force and Siphon Pumps.

4	No. 215P Pumps	1901	13	508	356
4	No. 215½P Pumps	1902	15	550	400
6	Nos. 159 to 162 Pumps	695	22	710	516
3	Nos. 163 and 164 Pumps	873	22	645	450
6	No. 1215½P Pumps	1903	21	745	576
3	No. 1217½P Pumps	1903	12	385	288

House and Pitcher Pumps.

12	No. 246½ Pumps	964	11	460	360
12	No. R251 Pumps	1663	10	488	396
12	No. 250 Pumps	1900	11	520	432
12	No. R251 Pumps with Cock Spout	1895	10	518	420
12	No. 253 Pumps	1895	11	506	408
12	No. 249 Pumps	1900	10	496	408
12	No. 252½ Pumps	927	14	584	456
12	No. 254½ Pumps	927	14	602	474
12	No. R245 Pumps	1746	10	430	442
12	No. R247 Pumps	1746	11	500	406
12	No. R220 Pumps	1665	10	364	300
12	No. R251 Pumps	1663	11	475	390
3	No. RS251 Pumps	1745	9	220	145
6	No. RS253 Pumps	1745	16	480	360

Low Down Pumps of All Descriptions.

3	No. 268 Pumps	513	6	320	261
5	No. 268 Pumps	513	13	524	440
5	No. 269 Pumps	.....	13	524	440
5	No. 286 Pumps	.....	7	425	360
3	No. 462 Pumps (two packages)	.....	16	600	465
3	No. 464 Pumps	.....	14	600	486
1	No. 475 Pumps	1485	6	275	195
25	15 ft. Pieces 2-inch Hose	.....	48	628	425

Power Pumps.

3	No. 277 Myers Working Head	879	20	560	420
1	No. 352 Bulldozer Pump	1196	21	890	690
1	No. 357 Working Head	1595	15	344	206
1	No. 359 Working Head (two packages)	1876	20	556	394
1	No. 363 Bulldozer Pump (two packages)	1079	60	2126	1682
1	No. 364 Working Head (two packages)	1601	43	1288	1030
1	No. 379A Vertical Power Hydro-Pneumatic	1637	6	205	143
1	No. 382 Working Head (two packages)	1360	66	3050	2530
1	No. 383 Working Head	1472	52	1305	1025
1	No. 387 Working Head	1569	6	185	130
1	No. 388 Working Head	1566	8	245	165
1	No. 391 Working Head	1659	18	415	298
2	No. 400 Junior Jack or Countershaft	1668	5	165	96
2	No. 403 Senior Pump Jack or Countershaft	1667	16	530	381
3	No. 407 Countershaft	1729	9	315	225
3	No. 425 Pumping Jack	1635	18	410	306
3	No. 426 Pumping Jack (two packages)	1684	16	475	359
3	No. 454 Century Stub Pitman	1272	10	360	242
2	No. 500 Bulldozer Pump	1732	8	260	190
1	No. 501 Bulldozer Pump	1732	6	280	215
1	No. 502 Bulldozer Pump	1732	7	275	210
1	No. 503 Bulldozer Pump	1732	11	400	315
1	No. 505 Bulldozer Pump	1732	14	540	415

Spray Pumps.

Number Packed in Case.	DESCRIPTION NUMBER OF PUMPS.	Figure Number of Pump	Cubic Feet per Case	Gross Weight per Case	Net Weight per Case
1	No. R299C (two packages)	1570	19	295	150
3	No. 305B	1456	5	145	100
2	No. R309	1413	5	210	160
6	No. R309A (two packages)	1413	10	562	466
6	No. R318	1521	9	224	150
1	No. R316C	1518	24	325	190
6	No. R324	1726	9	225	145
12	No. 327½	639	8	145	90
72	No. 327½	639	15	587	469
6	No. R329	1736	16	245	150
12	No. 331	547	24	395	180
1	No. R337B	1690	9	160	70
3	No. R337B	1690	15	340	225
2	No. 436	1519	10	388	308
6	No. 438A (two packages)	1413	14	830	690
12	Steel Water Carts	1520	77	800	624

Hay Tools.

12	Carriers, Unloader, for Wood Track	1547	12	465	360
12	Carriers, Unloader, for Steel Track	1507	10	390	312
288 feet	Double Steel Track	824	10	640	576
25	Double Harpoon Forks, 25-inch Tine	268	9	500	400
25	Double Harpoon Forks, 31-inch Tine	451	16	570	460
24	Nellis Forks	773	6	325	272
12	Triple Grapple Forks, Perfect	1438	41	842	600

Bicycle Stands.

36	Bicycle Stands	697	6	206	162
36	Perfection Stands	784	40	655	438

Door Hangers.

6 dozen	Sets Tandem Door Hangers	1154	11	675	600
6 dozen	Sets O. K. Door Hangers	998	8	420	360
450 feet	Track for Door Hangers	860	7	530	450
3 dozen	New-Way Door Hangers	1420	9	375	300
480 feet	Tubular Hanger Track	1424	12	860	660

List of Shipping Weights—Myers Pumps.

No.	Wgt., Lbs.	Page
19	97	67
20	99	67
21	91	67
22	105	67
23	105	67
24	113	67
25	109	67
No. 19 to No. 25 add for 3-way	21	
56	94	62
57	90	62
58	100	62
69	90	64
70	90	63
71	87	64
72	97	63
73	94	64
No. 55 to No. 73 add for W. T.	8	
91	67	39
92	67	39
92½	71	39
93	67	39
94	68	39
94½	71	39
94½P	73	40
95	100	45
95½	100	45
96	68	44
97	68	44
98	80	43
99	80	43
104	99	54
104½	100	54
105	100	54
105½	100	54
106	94	54
109	82	54
No. 101 to No. 109 add for W. T.	8	
110	61	44
110½	68½	44
111	65	44
112	77	43
113	68	43
115	70	43
115½	72	43
116	79	43
117	80	43
117P	82	40
124	63	50
125	57	50
126	60	50
126½	60	50
127	59	50
127½	56	50
128	61	50
128½	62	50
129	58	50
129½	60	50
130	68	50
130½	67	50
131	61	50
131½	62	50
132	64	51
133	68	51
134	64	51
134½	64	51
135	64	51
135½	65	51
136	71	51
136½	70	51
137	68	51
137½	65	51
138	63	51
138½	64	51
139	66	51
139½	65	51
No. 120 to No. 145½ add for W.T.	8	
159	85	87
160	85	87
161	84	87
162	88	87
163	146	87
215P	86	31
215½P	95	31
216P	87	31
216½P	97	31
217P	85	31
217½P	94	31
218P	86	31

SHIPPING WEIGHTS, MYERS PUMPS—Continued.

No.	Wgt., Lbs.	Page
218½P	94	31
220	22	26
222	24	26
223P	92	33
224P	92	33
225	91	79
226	100	79
227	91	79
228	100	79
230	105	81
232	100	81
235A.	135	83
236A	143	83
242	180	84
243	190	84
249	31	28
250	32	28
252	34	28
254	37	28
255	26	93
268	85	91
268C	120	91
275	40	88
277	140	88
278	64	88
280	3	88
281	3¾	88
282	4½	88
283	6	88
284	8	88
296	11	218
298	17	219
300	25	230
301	35	230
302	37	230
302B	40	230
303	40	230
303B	35	230
304	37	220
305B	40	220
313	85	242
313A	95	242
313B	100	242
313C	110	242
317	3	215
319	7	215
323	4½	214
327½	7	214
328	10	214
330	25	217
330P	25	217
331	25	217
331P	25	217
340½	125	169
341½	126	169
344½	124	169
345½	126	169
346	363	167
352	730	162
357	216	176
357½	226	176
359	375	181
359A	390	143
363	1630	163
364	950	182
364A	975	143
366	70	190
372	194	168
373	195	168
374	196	168
375	199	168
377	140	164
377A	146	136
379A	143	139
379AB	226	140
382	2610	186
382½	2870	187
383	1000	184
add 50 lbs. for Air Chamber.		
383M		185
384	560	184
384M		185
387	130	172
388	161	174
388A	175	141
388G		174
388M	162	175
389	202	177
391	293	178
391A	312	142
392	370	178
392A	118	142
395	15	219
400	55	196
401	60	197
403	125	195
405	412	195
407	75	196
408	65	197
416	25	25
417	23	25
418	26	25
419	25	25
425	85	191
426	106	192
428	106	193
430	215	173
433	139	173
435	175	236
435A	180	236
436	170	236
436A	175	236
445	220	236
445A	230	236
446	210	236
446A	220	236
449	255	232
451	85	75
452	88	75
454	115	166
455	110	166
456	70	166
458	45	166
459	300	234
475	190	92
475G	193	92
476	112	95
478	235	95
486	143	96
488	260	96
500	95	161
500B		165
501	208	161
502	203	161
502B		165
503	300	161
505	415	161
550	21	145
551	29	145
552	30	145
555	42	145
556	48	145
580	120	238
600A	130	131
600AT	240	132
602A	130	131
605	125	131
612	153	153
612A	153	134
612AM	165	135
612M	165	154
613	265	153
613A	265	134
613AM	290	135
613M	290	154
614	460	153
614A	460	134
614AM	510	135
614M	510	154
615	510	153
615A	510	134
615AM	560	135
615M	560	154
633	450	155
633M	460	155
634	550	155
634M	560	155
1215P	85	32
1215½P	94	32
1216P	87	32
1216½P	96	32
1217P	85	32
1217½P	94	32
1218P	85	32
1218½P	93	32

COG GEAR PUMPS

R1	75	71
R4	78	72
R4½	73	73
R5	79	72
R5½	76	73
R6	83	72
R6½	80	73
R7	93	72
R7½	89	73
R8	78	71
No. R12 to R18 add for W. T.	10	
3-way	9	
3-way and W. T.	19	
No. R32 to R56 add for 3-way	21	
R91	69	38
R92	73	38
R92½	74	38
R93	70	38
R94	70	38
R94½	71	38
R94½P	72	40
R96	75	44
R97	73	44
R98	80	42
R99	78	42
R101	86	52
R102	95	52
R103	101	52
R104	105	52
R104½	108	52
R105	110	53
R105½	108	53
R106	105	53
R107	90	52
R108	93	52
R109	101	52
No. R101 to R109 add for W. T.	8	
R110	69	44
R110½	76	44
R111	73	44
R112	78	42
R116	80	42
R117	83	42
R117P	83	40
R120	130	55
R121	124	55
R184	96	65
R185	86	65
R186	99	65
R187	93	65
R188	104	65
R189	100	65
No. R150 to R189 add for W. T.	8	
R200	91	53
R201	88	53
R202	95	53
R203	91	53
R204	98	53
R205	106	53
R220	25	26
R222	27	26
R223P	92	33
R224P	92	33
R225	85	78
R226	94	78
R227	86	78
R228	96	78
R230	96	80
R232	105	80
R235A	132	83
R236A	142	83
R245	31	27
R246½	32	27
R247	34	27
R248½	36	27
R251	33	27
R251CS	34	27
R253	36	27
R253CS	37	27
R288	55	94
R288A	60	127
R299B	160	224
R299C	165	224
R308	70	223
R308B	80	223
R308C	85	223
R309	90	226
R309A	105	226
R309B	107	226
R309C	110	226
R316B	200	227
R316C	205	227
R317B	270	228
R317C	275	228
R318	25	221
R318B	50	221
R324	9	215
R329	28	216
R335	205	229
R335A	212	229
R335B	215	229
R335C	217	229
R336B	80	222
R337B	75	222
R410	33	25
R411	34	25
R412	33	25
R413	34	25
R416	25	25
R417	26	25
R418	25	25
R419	26	25
R442	140	226
R442A	145	226
R442B	150	226
R442C	155	226
R444B	208	227
R444C	215	227
R469	89	93
R479	75	90
R479C	110	90
R1050	58	48
R1051	55	48
R1052	60	48
R1053	60	48
R1054	65	48
R1055	68	48
R1056	60	48
R1057	64	48
R1058	59	48
R1059	62	48
R1070	63	49
R1071	59	49
R1072	61	49
R1073	62	49
R1074	69	49
R1075	65	49
R1076	60	49
R1077	65	49
R1078	60	49

SHIPPING WEIGHTS, MYERS PUMPS—Continued.

No.	Wgt., Lbs.	Page
R1079	63	49
RS245	33	29
RS246½	33	29
RS247	35	29
RS248½	35	29
RS251	52	29
RS251½	52	29
RS253	60	29
RS253½	60	29
S391	358	179

EXHIBITION STANDS

Fig. 1628	170	68
Fig. 1738	170	24
Fig. 1687	95	271

PITCHERS

No.	Wgt., Lbs.
1	Pitcher.. 20
2	Pitcher.. 24
3	Pitcher.. 28
4	Pitcher.. 30
5	Pitcher.. 39
6	Pitcher.. 64

SPRAYERS

		Page
1 per box	18	216
2 per box	18	216
3 per box	20	216
4 per box	18	216

BARREL SPRAY OUTFITS, ETC.

No.	Wgt., Lbs.	Page
Fig. 1520, Barrel only,	69	225
Fig. 1520, Cart only,	85	225

SPRAY OUTFITS

No. 15	500	239
No. 20	790	233
No. 21	690	237
No. 25	870	233
No. 26	935	237
No. 31	880	237
No. 36	900	237

No.	Wgt., Lbs.	Page
No. 55	940	235
No. 60	1020	235

RAMS

2	26	170
3	35	170
4	47	170
5	60	170
6	158	170
7		170
8		170

Weight List of Hay Unloaders.

No.	Fig.		Weight, Lbs.	Page
50	1116		56	256
55	1117		60	257
60	1447		65	258
65	1131		55	259
66	1447	Wood Track, Cable Draft.	65	258
67	1131	Triple Hoist	70	259
70	1679		52	272
71	1679	Triple Hoist	56	272
72	1673		52	278
73	1673		56	278
75	1549		60	274
76	1549		63	274
80	1814		44	254
114	1847		28	275
120	1032		32	277

No.	Fig.		Weight, Lbs.	Page
124	1848		40	276
131	1656		28	279
134	1657		40	280
150	1041		32	281
165	1043		30	282
171	1298		39	283
176	1032		42	277
186	1041		42	281
200	1507		27	262
205	1547		30	267
209	1652		36	263
212	1672		38	268
215	1508		38	264
220	1522		42	269

Slings and Forks.

SLINGS.

Fig.		Weight, Lbs.	Page
620	4 foot slings	22	288
620	4½ foot slings	21	288
621	6 foot slings	30	288
1728	5 foot 3 rope slings	26	288
1308		32	289
1309		67	289
1589	5 foot 3 chain slings	29	290
1590	Chain slings	40½	290

FORKS.

268		16	295
271		10	296
450		30	295
451		18	295
670		24	296
773		11	296

Fig.		Weight, Lbs.	Page
1312		21	295
1314		21	294
1351	Perfect Double	40	297
1952	Giant Perfect Double	47	298
1438	Perfect Triple	48	297
1951	Giant Perfect Triple	57	298
1695		3	291
1697		4	291
1611	2 Chain	6	292
1611	3 Chain	11	292

JACKSON FORKS.

3½	foot	50	299
4	foot	53	299
4½	foot	55	299
5	foot	74	299
5½	foot	76	299
6	foot	78	299

Weight List of Pulleys.

Fig.		Weight, Lbs.	Page
434		3	302
466		3	302
486		3	302
565		3	301
619		3	301
676		3	300
692		3½	301
796		4	300
819		4	300
820		5	300
981		4½	303
1062		6½	302
1120		5	300

Fig.		Weight, Lbs.	Page
1122		6½	302
1124		4	302
1133		3½	301
1139		3	261
1267		3	301
1268		4	301
1316		5½	302
1506		2	303
1651		6½	302
1701		5¾	303
1799		7⅛	303
1817		1¾	303

Miscellaneous.

Fig.		Weight, Lbs.	Page
266	Floor Hooks, Doz	10½	303
267	Hanging Hooks, Doz. 10 in.	9	302
	12 in.	10	
	14 in.	11	
	16 in.	12	
301	Wrought Iron Rafter Brackets, Doz.	2¼	304
302	Hanging Hooks, Doz	9	303
303	Hanging Hook, Screw Eye, Doz.	11½	303
376	Rope Hitch, Doz	21	304
436	Malleable Rafter Brackets, Doz.	4	304
438	Extension Ladder, Each	55	305
439	Rafter Grapples, Each	3½	304
628	Snatch Block, Each	4	305
806	Self-Locking Sling Pulley	10¾	293
	Double Steel Track, per foot	2	294
1052	Universal Sling Pulleys	14½	292
1100	Singletrees, Each	5	305
1844	Ridge Pole Bracket, Doz.	2¼	304
1845	Ridge Pole Bracket, Doz.	9¾	304
1846	Ridge Pole Rafter Bracket, Doz.	13¼	304

Barn Door Hangers.

No.		Weight, Lbs.	Page
1	per ½ doz. sets	35	320
2	per ½ doz. sets	35	
3	per ½ doz. sets	55	318
5	per ½ doz. sets	50	
7	per ½ doz. sets	40	319
10	per ½ doz. sets	35	314
11	per ½ doz. sets	25	315
15	per ½ doz. sets	50	310
16	per ½ doz. sets	35	311
20	per ½ doz. sets	45	309
21	per ½ doz. sets	40	309
25	per ½ doz. sets	55	324
	Stayon Barn Door Track per 100 ft.	95	319
	New Way—Barn Door Track, per case, 100 ft., 165 lbs		316
	Faultless Track, Fig. 1779, per 100 ft.	300	308
	Giant—Barn Door Track, per case of 100 ft., 190 lbs		312

Weight List of Hay Rack Clamps.

No.		Weight, Lbs.	Page
0	Wenzelmann, per set	11	331
1	Wenzelmann, per set	12	331
2	Wenzelmann, per set	14	331
3	Wenzelmann, per set	15	331
1	Wheat Rack Clamps	11	330
2	Wheat Rack Clamps	13	330
6	Take-Down, per set	18	332
7	Take-Down, per set	21	332
1200	Lawn Swing	100	340
1609	Porch Swing	35	340

Code Word Index.

Code	Page
Aback	62
Abaft	62
Abbot	62
Abject	63
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